

ABSTRACT

An interactive whiteboard appliance includes the capability to integrate and manage, in a user-friendly manner, interactive electronic whiteboard sessions and videoconferencing sessions between the interactive whiteboard appliance and one or more client devices. An application manager executing on the interactive whiteboard appliance manages an interactive whiteboard application and a collaboration client executing on the interactive whiteboard appliance to maintain a videoconferencing session window on top of an interactive whiteboard session window during videoconferencing sessions. The application manager also provides graphical user interface controls displayed on the interactive whiteboard appliance that allow users to initiate and manage interactive electronic whiteboard sessions and videoconferencing sessions, including switching between interactive electronic whiteboard sessions and videoconferencing sessions. The approach may be implemented on interactive whiteboard appliances that are not natively configured to allow users to select and/or switch control between an interactive whiteboard session window and a videoconferencing session window.

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	49986-0955
		Application Number	
Title of Invention	Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2:

☐	Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)
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Inventor Information:

Inventor	1				Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Steven		Nelson			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						
City	San Jose	State/Province	CA	Country of Residence	US	
Mailing Address of Inventor:						
Address 1	c/o Ricoh Americas Corporation					
Address 2	675 Campbell Technology Drive, Suite 200					
City	Campbell	State/Province	CA			
Postal Code	95008	Country	US			
Inventor	2				Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Lana		Wong			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						
City	Randolph	State/Province	NJ	Country of Residence	US	
Mailing Address of Inventor:						
Address 1	c/o Ricoh Americas Corporation					
Address 2	675 Campbell Technology Drive, Suite 200					
City	Campbell	State/Province	CA			
Postal Code	95008	Country	US			
Inventor	3				Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Hiroshi		Kitada			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	49986-0955	
		Application Number		
Title of Invention	Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances			
City	Tuckahoe	State/Province	NY	Country of Residence ⁱ
				US
Mailing Address of Inventor:				
Address 1	c/o Ricoh Americas Corporation			
Address 2	675 Campbell Technology Drive, Suite 200			
City	Campbell	State/Province	CA	
Postal Code	95008	Country ⁱ	US	
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.				Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).	
☐ An Address is being provided for the correspondence information of this application.	
Customer Number	29989
Email Address	usdocket@h35g.com Add Email Remove Email

Application Information:

Title of the Invention	Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances		
Attorney Docket Number	49986-0955	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	9	Suggested Figure for Publication (if any)	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)
☐ Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	49986-0955
		Application Number	
Title of Invention	Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances		

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	29989		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove		
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
	Continuation of	15/637006	2017-06-29		
Prior Application Status	Patented		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15/637006	Continuation of	14/708186	2015-05-09	9699411	2017-07-04
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.					Add

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)¹ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	49986-0955
		Application Number	
Title of Invention	Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances		

Application Number	Country ^j	Filing Date (YYYY-MM-DD)	Access Code ^j (if applicable)	Remove

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	49986-0955
		Application Number	
Title of Invention	Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances		

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	49986-0955
		Application Number	
Title of Invention	Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances		

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.				
Applicant	1			Remove
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.				
				Clear
Assignee	Legal Representative under 35 U.S.C. 117		Joint Inventor	
Person to whom the inventor is obligated to assign.		Person who shows sufficient proprietary interest		
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:				
Name of the Deceased or Legally Incapacitated Inventor:				
If the Applicant is an Organization check here. ☐				
Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Applicant:				
Address 1				
Address 2				
City		State/Province		
Country		Postal Code		
Phone Number		Fax Number		
Email Address				
Additional Applicant Data may be generated within this form by selecting the Add button. Add				

Assignee Information including Non-Applicant Assignee Information:

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	49986-0955
		Application Number	
Title of Invention	Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances		

Assignee	1		
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.			
Remove			
If the Assignee or Non-Applicant Assignee is an Organization check here. ☒			
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Address 2	OHTA-KU		
City	TOKYO	State/Province	
Country ⁱ	JP	Postal Code	143-8555
Phone Number		Fax Number	
Email Address			
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add			

Signature:[Remove](#)

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). However, if this Application Data Sheet is submitted with the **INITIAL** filing of the application and either box A or B is **not** checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/EdwardABecker#37777/		Date (YYYY-MM-DD)	2019-07-09
First Name	Edward	Last Name	Becker	Registration Number
				37777
Additional Signature may be generated within this form by selecting the Add button. Add				

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	49986-0955
		Application Number	
Title of Invention	Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

CLAIMS

What is claimed is:

1. An interactive whiteboard appliance comprising:
 - a display;
 - a communications interface;
 - one or more processors;
 - one or more memories;
 - an operating system executing on the interactive whiteboard appliance;
 - an interactive whiteboard process configured to support an interactive whiteboard session on the display of the interactive whiteboard appliance, wherein the interactive whiteboard session includes an interactive whiteboard content area for displaying content that is shared with one or more client devices that are external to the interactive whiteboard appliance;
 - a collaboration client configured to support a videoconferencing session with one or more collaboration clients executing on the one or more client devices that are external to the interactive whiteboard appliance, wherein at least a portion of the videoconferencing session is arranged within the interactive whiteboard session, such that both the content of the interactive whiteboard session and the videoconferencing session are displayed simultaneously;
 - a manager component configured to:
 - cause a collaboration menu to be displayed, on the display of the interactive whiteboard appliance, wherein the collaboration menu includes one or more controls for switching between the interactive whiteboard session and the videoconferencing session, controlling sharing of the content with the one or more client devices that are external to the interactive whiteboard appliance, and controlling the videoconferencing session,
 - detect a user selection of a particular control from the one or more controls for switching between the interactive whiteboard session and the videoconferencing session, controlling sharing of the content with the one or more client devices that are external to the interactive whiteboard appliance, and controlling the videoconferencing session,
 - manage display of the interactive whiteboard session and the videoconferencing

session in response to detecting the user selection of the particular control from the one or more controls for switching between the interactive whiteboard session and the videoconferencing session, controlling sharing of the content with the one or more client devices that are external to the interactive whiteboard appliance, and controlling the videoconferencing session.

100

FIG. 1

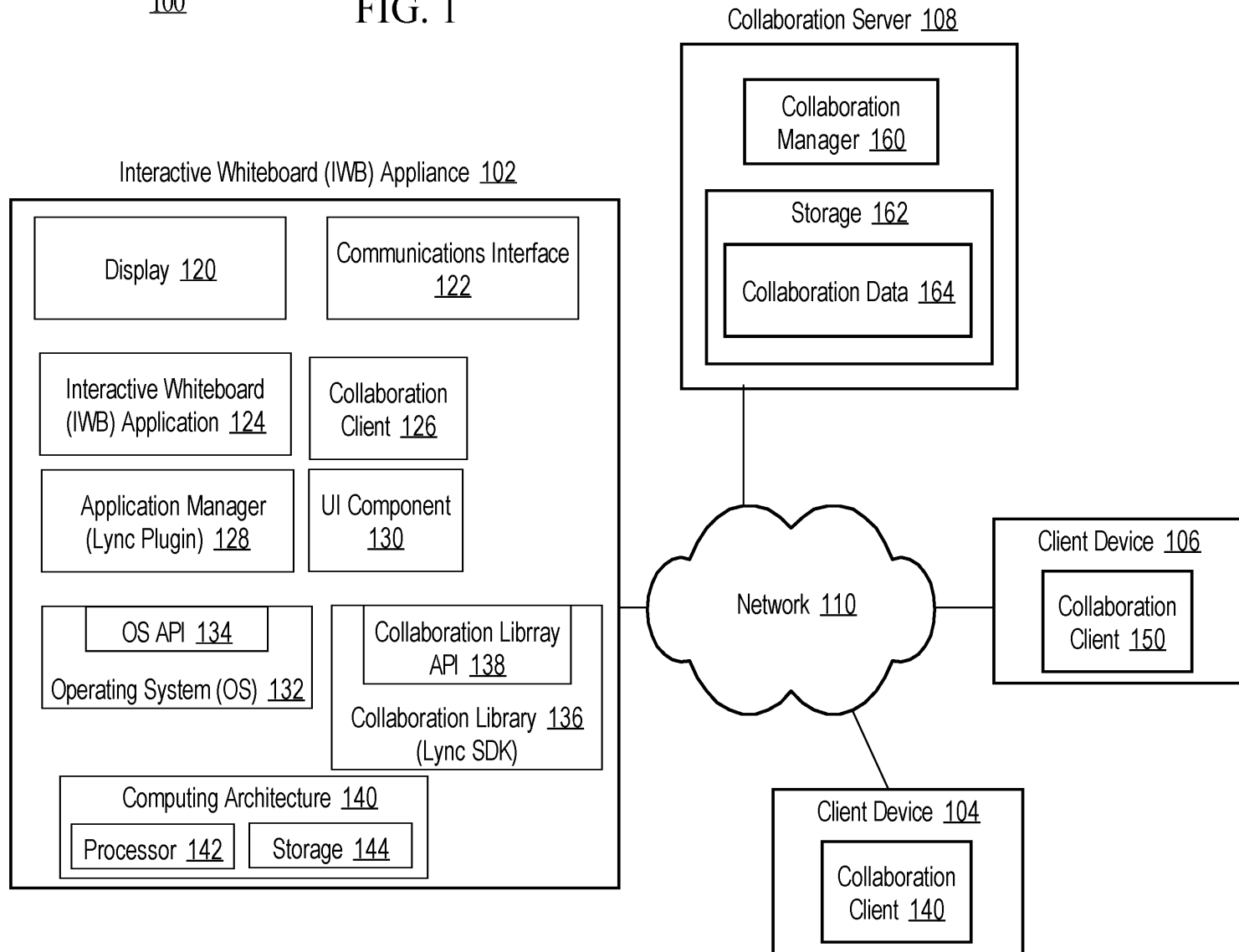


FIG. 2A

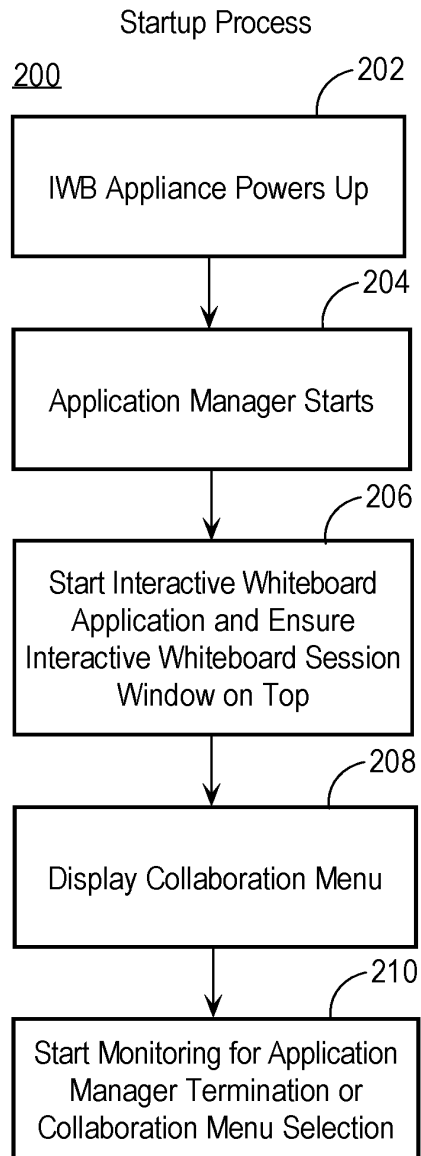


FIG. 2B

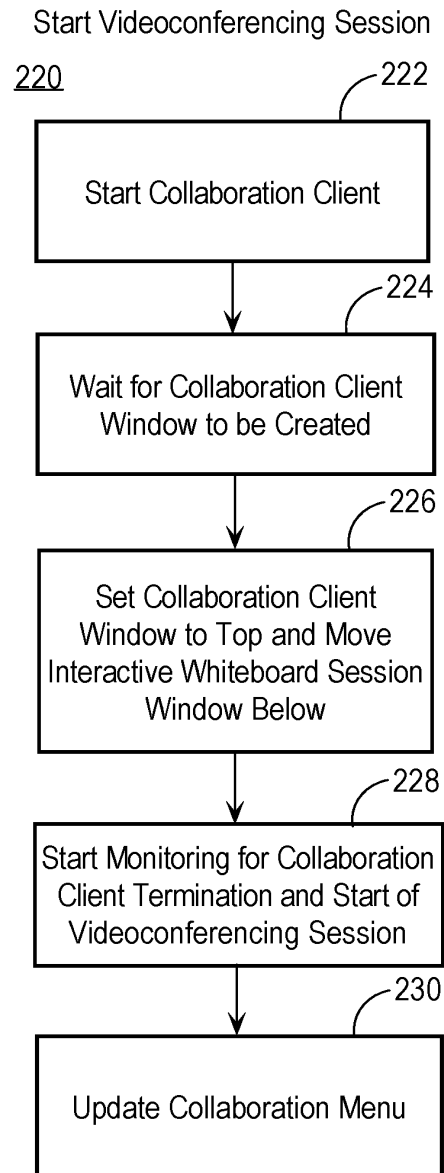


FIG. 2C

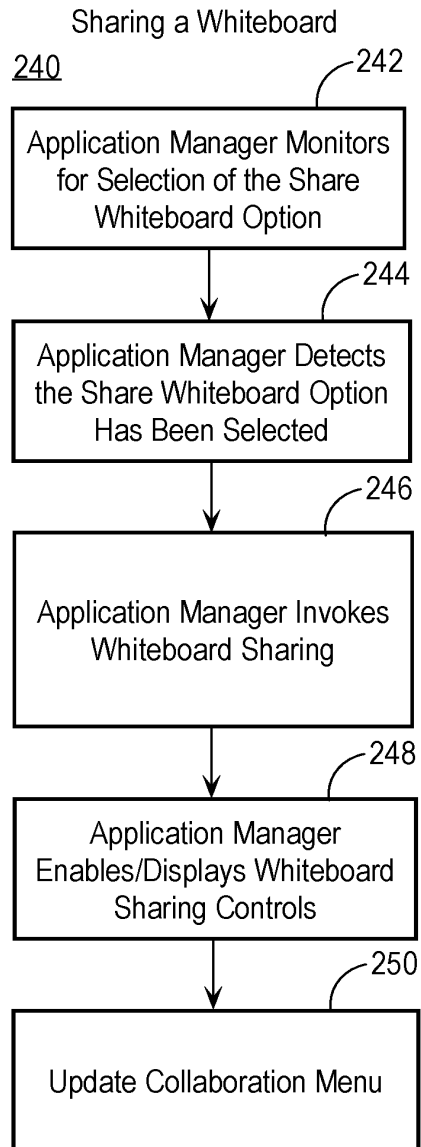


FIG. 3A

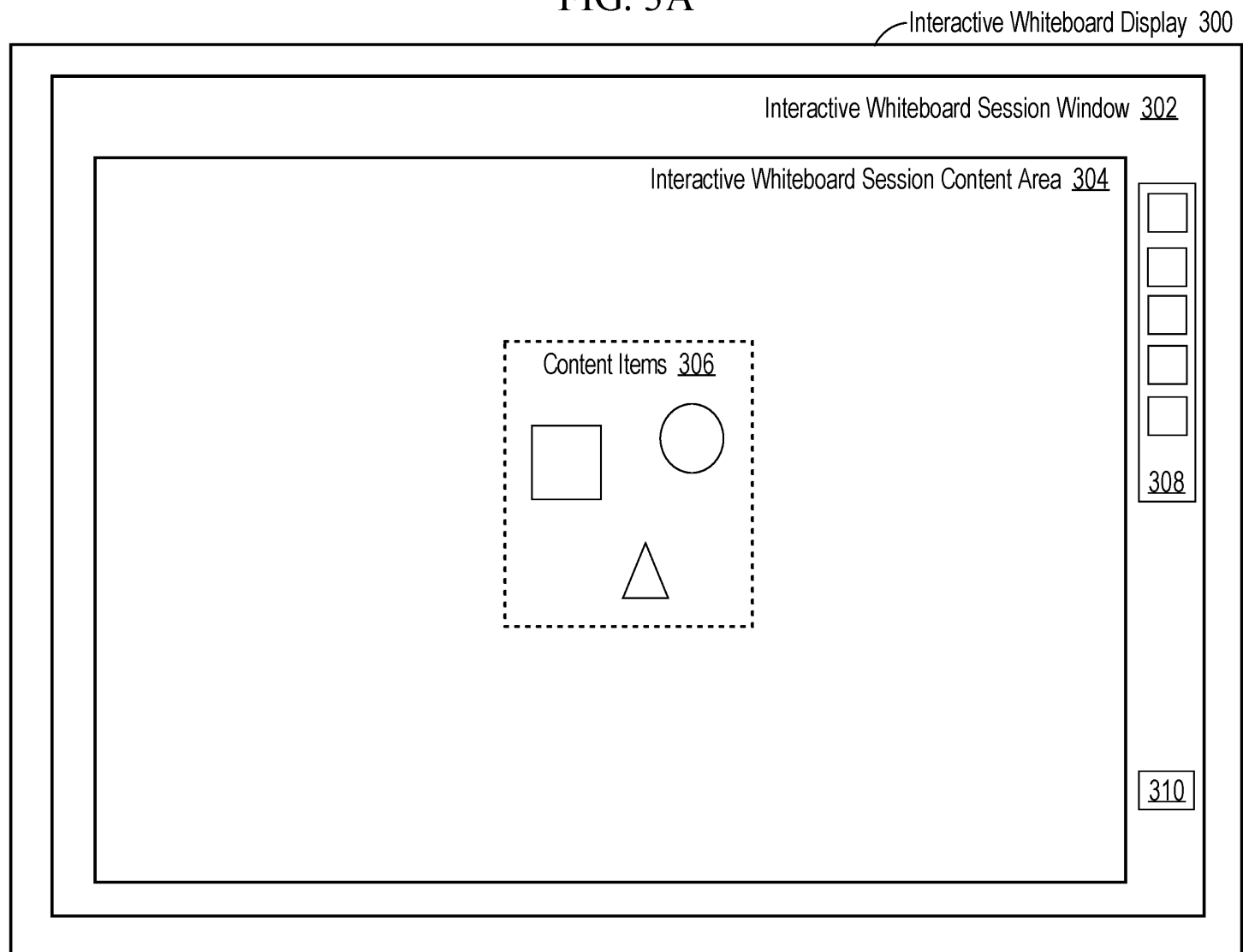


FIG. 3B

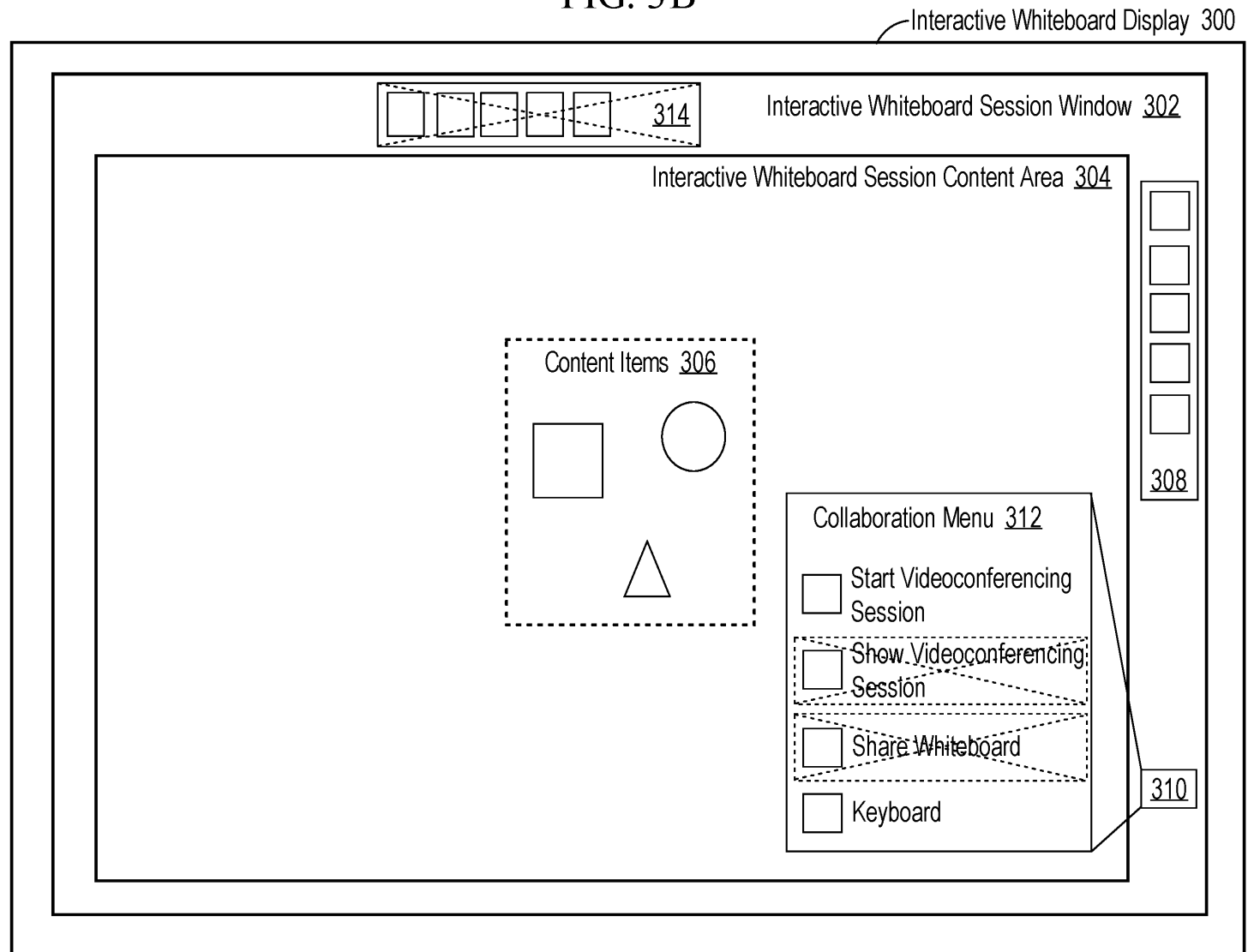


FIG. 3C

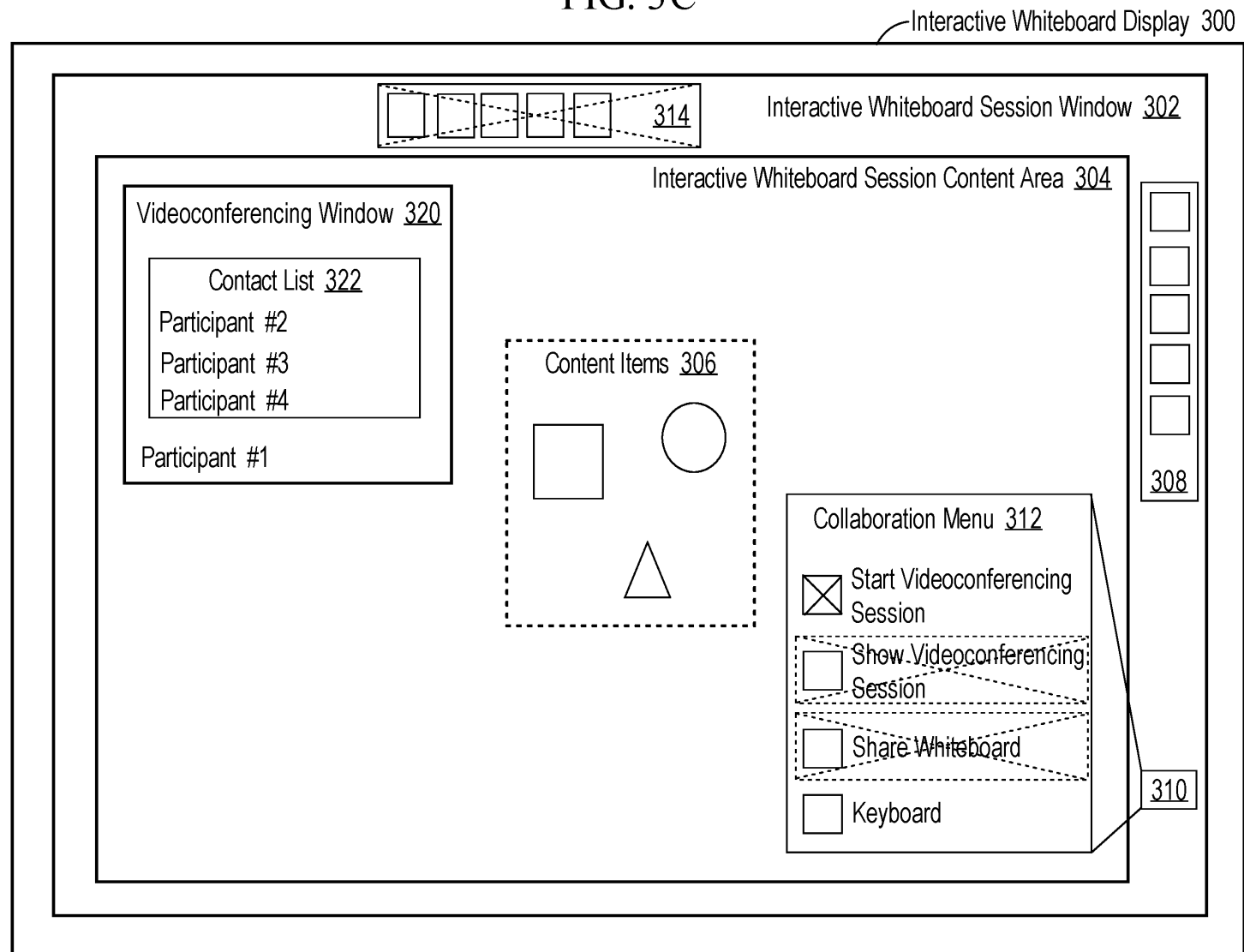


FIG. 3D

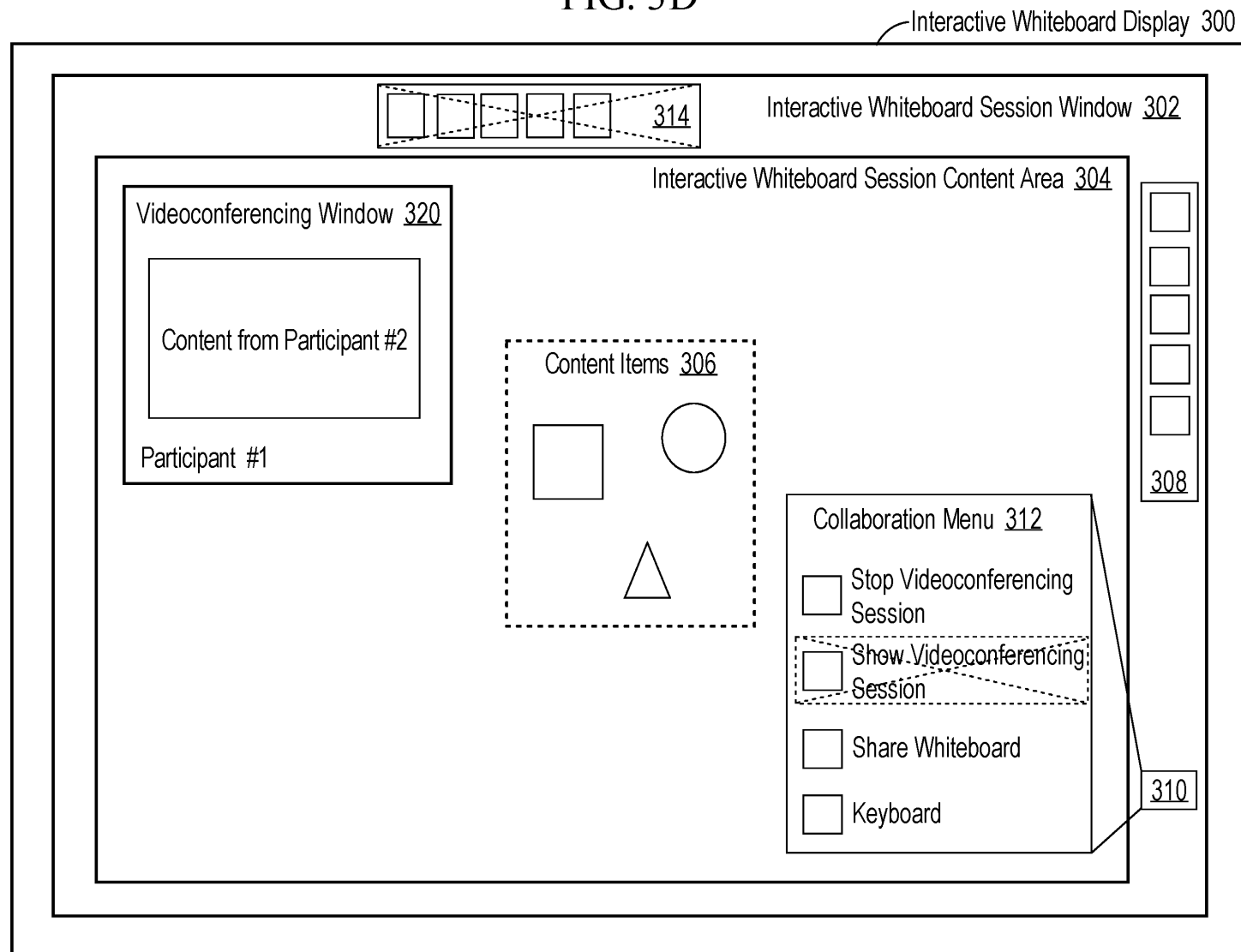


FIG. 3E

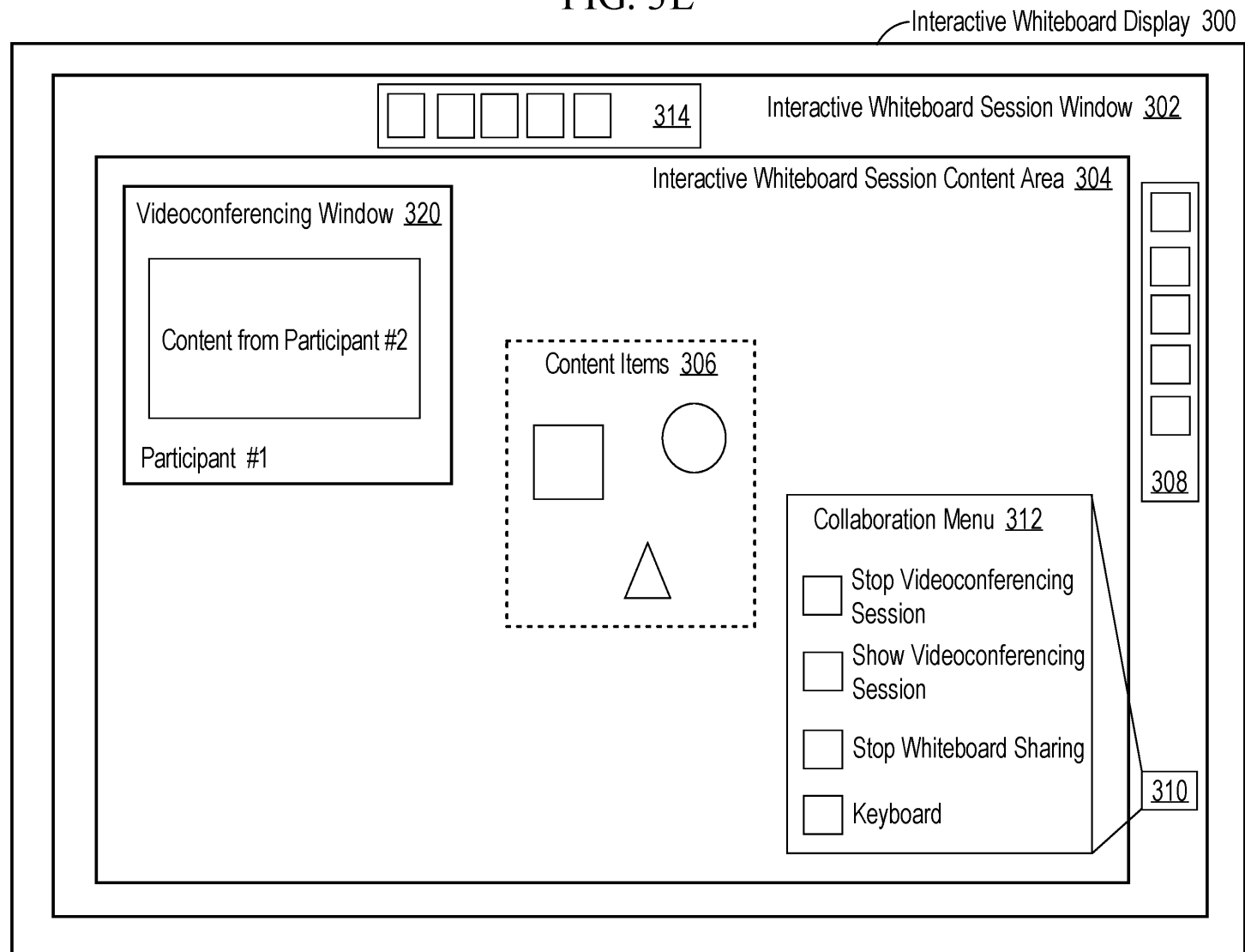
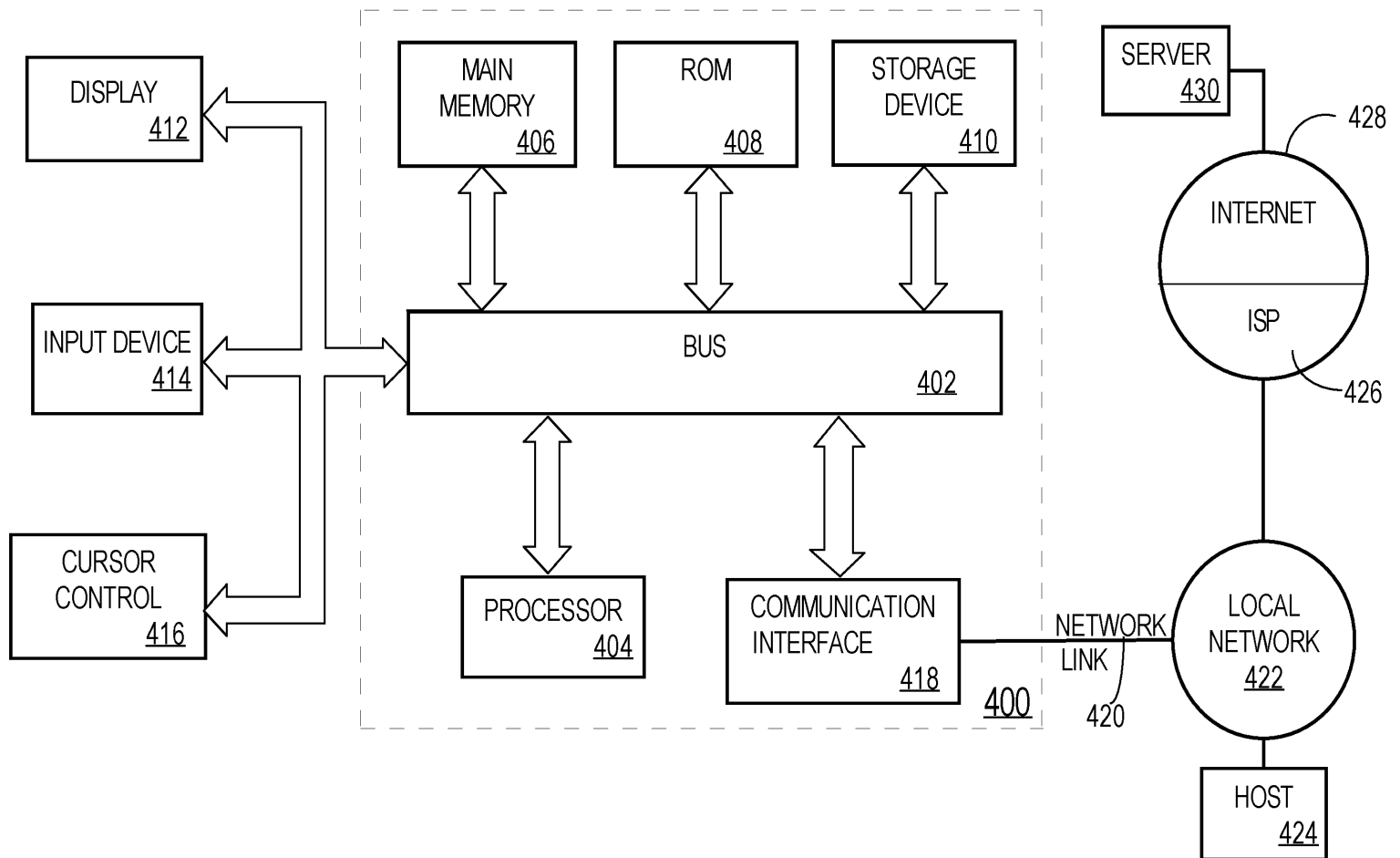


FIG. 4



Electronic Acknowledgement Receipt	
EFS ID:	36542008
Application Number:	16507952
International Application Number:	
Confirmation Number:	7543
Title of Invention:	Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances
First Named Inventor/Applicant Name:	Steven Nelson
Customer Number:	29989
Filer:	Edward A. Becker
Filer Authorized By:	
Attorney Docket Number:	49986-0955
Receipt Date:	10-JUL-2019
Filing Date:	
Time Stamp:	17:26:19
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$1720
RAM confirmation Number	071119INTEFSW17265500
Deposit Account	501302
Authorized User	Edward Becker
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)					
37 CFR 1.20 (Post Issuance fees)					
37 CFR 1.21 (Miscellaneous fees and charges)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	49986-0955_ADS-as-filed.pdf	1226378	no	9
			2f302725e31a0f4bdfc4a4088d14423cd0de759a		
Warnings:					
Information:					
2		49986-0955_CONApplication-as-filed.pdf	143989	yes	18
			fce37839200e8ee3430c64b35e1672db317c9c05		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Abstract		18	18	
	Claims		16	17	
	Specification		1	15	
Warnings:					
Information:					
3	Drawings-only black and white line drawings	49986-0955_Drawings-as-filed.pdf	543703	no	9
			968d95c46536f70bc0fc6f34d3bd9cc8faf694a7		
Warnings:					
Information:					
4	Oath or Declaration filed	49986-0955_ComboDAP_GRA NDPARENT-as-filed.pdf	1525515	no	2
			2584d8c5a381e883b34f6ffb368982a42bf2433e		
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	35463	no	2
			ddb0aabe0f33c7dc2277f71b63a7e15f1711e9a1		

Warnings:	
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**COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN
APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76),
ASSIGNMENT AND POWER OF ATTORNEY**

Title of Invention	INTEGRATION OF VIDEOCONFERENCING WITH INTERACTIVE ELECTRONIC WHITEBOARD APPLIANCES
<u>I. Declaration</u> Each undersigned inventor hereby declares that: This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>14/708,186</u> filed on <u>May 9, 2015</u>. The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. <u>II. Assignment</u> WHEREAS, RICOH COMPANY, LTD. ("ASSIGNEE"), a corporation organized under the laws of Japan, and having an address of 3-6 Nakamagome, 1-chome, Ohta-ku, Tokyo 143-8555, Japan, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor; NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, the undersigned inventor(s) does hereby sell, assign, transfer and set over unto said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to said invention as set forth in the above-identified application, including any nonprovisionals, continuations, continuations-in-part, divisions, reissues, substitutes, renewals, reexaminations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention; UPON SAID CONSIDERATION, I/we hereby agree with said ASSIGNEE that I/we will not execute any writing or do any act whatsoever conflicting with these presents, and that I/we will, at any time upon request, without further or additional consideration but at the expense of said ASSIGNEE, execute such additional assignments and other writings and do such additional acts as said ASSIGNEE may deem necessary or desirable to perfect the ASSIGNEE's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, nonprovisional, continuation, continuation-in-part, divisional, reissued, substitute, renewal, reexamined or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or	

Attorney Docket No.: 49986-0837 (RSID 1-865_FN201504048)

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chooses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind and inure to the benefit of the successors, assigns and legal representatives of ASSIGNEE;

AND I/we request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said ASSIGNEE, its successors and assigns, as the sole owners of the entire right, title and interest in and to said patent and the invention covered thereby.

III. Power of Attorney

The undersigned inventor(s) hereby appoint practitioner(s) associated with **Customer Number 29989**, practitioners of **HICKMAN PALERMO BECKER BINGHAM LLP**, as my/our attorney(s) and/or agent(s) to prosecute the above-identified application and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize the correspondence address for the above-identified application to be the address associated with the above-mentioned Customer Number.

Each inventor named below is the Applicant Inventor or Joint Inventor.

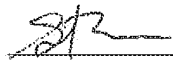
IV. Counterparts

This combined declaration, assignment and power of attorney may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same combined declaration, assignment and power of attorney.

LEGAL NAME of Inventor and SIGNATURE of Applicant for Patent

Inventor 1: Steven Nelson

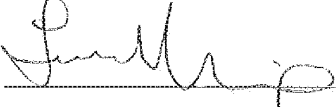
Date: May 28, 2015

Signature: 

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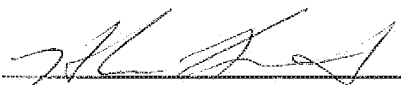
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49986-0955

UNITED STATES PATENT APPLICATION

FOR

INTEGRATION OF VIDEOCONFERENCING WITH INTERACTIVE ELECTRONIC
WHITEBOARD APPLIANCES

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RELATED APPLICATION DATA AND CLAIM OF PRIORITY

[0001] This application is a Continuation of prior U.S. Patent Application No. 15/637,006 (Attorney Docket No. 49986-0908) entitled “Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances” filed June 29, 2017, which is a Continuation of prior U.S. Patent Application No. 14/708,186 (Attorney Docket No. 49986-0837) entitled “Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances” filed May 9, 2015, and issued as U.S. Patent No. 9,699,411 B2 on July 4, 2017, the contents of which are incorporated by reference for all purposes as if fully set forth herein.

FIELD OF THE INVENTION

[0002] Embodiments relate generally to integrating videoconferencing with interactive electronic whiteboard appliances.

BACKGROUND

[0003] The approaches described in this section are approaches that could be pursued, but not necessarily approaches that have been previously conceived or pursued. Therefore, unless otherwise indicated, it should not be assumed that any of the approaches described in this section qualify as prior art merely by virtue of their inclusion in this section.

[0004] Interactive electronic whiteboard appliances allow users to view and make changes to electronic information and have the changes propagated to other devices. There is limited capability, however, to use other applications on interactive whiteboard appliances concurrent with the sharing of an electronic whiteboard.

SUMMARY

[0005] An interactive whiteboard appliance includes a display, a communications interface, one or more processors, one or more memories, an operating system executing on the interactive whiteboard appliance and having an application programming interface that provides access to functionality supported by the operating system, an interactive whiteboard application configured to display an interactive whiteboard window on the display of the interactive whiteboard appliance, a collaboration client configured to support one or more videoconferencing sessions with one or more collaboration clients executing on one or more client devices that are external to the interactive whiteboard appliance including displaying a

videoconferencing window on the display of the interactive whiteboard appliance and an application manager. The application manager is configured to cause a menu to be displayed on the display of the interactive whiteboard appliance that includes one or more options for switching between the interactive whiteboard application window and the videoconferencing window and detect a user selection of a particular option from the one or more options for switching between the interactive whiteboard window and the videoconferencing window. The application manager is further configured to manage display of the interactive whiteboard window and the videoconferencing window in response to detecting the user selection of the particular option from the one or more options for switching between the interactive whiteboard application window and the videoconferencing window.

BRIEF DESCRIPTION OF THE DRAWINGS

[0006] In the figures of the accompanying drawings like reference numerals refer to similar elements.

[0007] FIG. 1 is a block diagram that depicts an arrangement for integrating videoconferencing services with an interactive whiteboard appliance.

[0008] FIG 2A is a flow diagram that depicts example activities performed during a startup process of an interactive whiteboard appliance.

[0009] FIG. 2B is a flow diagram that depicts example activities performed during startup of a videoconferencing session.

[00010] FIG. 2C is a flow diagram that depicts a process for sharing a whiteboard after a videoconferencing session has been established.

[00011] FIG. 3A depicts an example interactive whiteboard display after an interactive whiteboard appliance has been powered up.

[00012] FIG. 3B depicts the display of a collaboration menu after selection of a collaboration menu icon.

[00013] FIG. 3C depicts an interactive whiteboard display after a user has selected a “Start Videoconferencing Session” option from a collaboration menu.

[00014] FIG. 3D depicts interactive whiteboard display after a videoconferencing session has been established between an interactive whiteboard appliance and a participant on another device.

[00015] FIG. 3E depicts a collaboration menu that has been updated to make a “Show Videoconferencing Session” option active and to change a “Share Whiteboard” option to a “Stop Whiteboard Sharing” option.

[0010] FIG. 4 is a block diagram that depicts an example computer system upon which embodiments may be implemented.

DETAILED DESCRIPTION

[0011] In the following description, for the purposes of explanation, numerous specific details are set forth in order to provide a thorough understanding of the embodiments. It will be apparent, however, to one skilled in the art that the embodiments may be practiced without these specific details. In other instances, well-known structures and devices are shown in block diagram form in order to avoid unnecessarily obscuring the embodiments.

I. OVERVIEW

II. SYSTEM ARCHITECTURE

A. Interactive Whiteboard Appliance

B. Collaboration Server

C. Client Devices

III. ELECTRONIC WHITEBOARD AND VIDEOCONFERENCING SESSION INTEGRATION

A. Startup

B. Establishing a Videoconferencing Session

C. Sharing a Whiteboard

IV. IMPLEMENTATION MECHANISMS

I. OVERVIEW

[0012] An interactive whiteboard appliance includes the capability to integrate and manage, in a user-friendly manner, interactive electronic whiteboard sessions and videoconferencing sessions between the interactive whiteboard appliance and one or more client devices. An application manager executing on the interactive whiteboard appliance manages an interactive whiteboard application and a collaboration client executing on the interactive whiteboard appliance to maintain a videoconferencing session window on top of an interactive whiteboard

session window during videoconferencing sessions. The application manager also provides graphical user interface controls displayed on the interactive whiteboard appliance that allow users to initiate and manage interactive electronic whiteboard sessions and videoconferencing sessions, including switching between interactive electronic whiteboard sessions and videoconferencing sessions. The approach may be implemented on interactive whiteboard appliances that are not natively configured to allow users to select and/or switch control between an interactive whiteboard session window and a videoconferencing session window.

II. SYSTEM ARCHITECTURE

[0013] FIG. 1 is a block diagram that depicts an arrangement 100 for integrating videoconferencing services with an interactive whiteboard appliance. Arrangement 100 includes an interactive whiteboard appliance 102, client devices 104, 106 and a collaboration server 108, communicatively coupled via a network 112. Arrangement 100 is not limited the particular elements depicted in FIG. 1 and may include fewer or additional elements depending upon a particular implementation. Embodiments are described herein in the context of a single interactive whiteboard appliance 102 for purposes of explanation, but the approach is applicable to any number of interactive whiteboard appliances. Network 112 is depicted in FIG. 1 as a single network for purposes of explanation only and network 112 may include any number and type of wired or wireless networks, such as local area networks (LANs), wide area networks (WANs), the Internet, etc. The various elements depicted in FIG. 1 may also communicate with each other via direct communications links that are not depicted in FIG. 1 for purposes of explanation.

A. Interactive Whiteboard Appliance

[0014] Interactive whiteboard appliance 102 is an electronic whiteboard that supports interactive electronic whiteboard sessions and videoconferencing sessions with other devices. The interactive whiteboard appliance 102 includes the capability to manage interactive electronic whiteboard sessions and videoconferencing sessions in a user-friendly manner by maintaining a videoconferencing session window on top of an interactive whiteboard session window during videoconferencing sessions. The interactive whiteboard appliance 102 also provides graphical user interface controls that allow users to initiate and manage interactive electronic whiteboard sessions and videoconferencing sessions, including switching between interactive electronic

whiteboard sessions and videoconferencing sessions. The approaches described herein are applicable to interactive whiteboard appliances that are not natively configured to allow users to select and/or switch control between an interactive whiteboard session window and a videoconferencing session window.

[0015] In the example depicted in FIG. 1, interactive whiteboard appliance 102 includes a display 120, a communications interface 122, an interactive whiteboard (IWB) application 124, a collaboration client 126, an application manager 128, a user interface (UI) component 130, an operating system (OS) 132 having an OS application programming interface (API) 134, a collaboration software development kit (SDK) 136 with a collaboration SDK API 138 and storage 144. These elements are described in more detail hereinafter. Interactive whiteboard appliance 102 may include fewer or more components than those depicted in FIG. 1 and described herein and the particular components used may vary depending upon a particular implementation and interactive whiteboard appliance 102 is not limited to a particular set of components or features. For example, interactive whiteboard appliance 102 may also include manual controls, such as buttons, slides, etc., not depicted in FIG. 1, for performing various functions on mobile device, such as powering on/off or changing the state of interactive whiteboard appliance 102 and/or display 120.

[0016] Display 120 may be implemented by any type of display that displays images and information to a user and may also be able to receive user input and embodiments are not limited to any particular implementation of display 120. As one non-limiting example, display 120 may be a touchscreen display 120 that both displays information to users and allows user to select graphical user interface objects. Interactive whiteboard appliance 102 may have any number of displays 120, of similar or varying types, located anywhere on interactive whiteboard appliance 102.

[0017] Communications interface 122 may include computer hardware, software, or any combination of computer hardware and software to provide wired and/or wireless communications between interactive whiteboard appliance 102 and other devices and/or networks, such as collaboration server 108 and client devices 104, 106. The particular components for communications interface 130 may vary depending upon a particular implementation and embodiments are not limited to any particular implementation of communications interface 130.

[0018] Interactive whiteboard (IWB) application 124 is an application that executes on interactive whiteboard appliance 102 and, in conjunction with collaboration server 108, manages interactive whiteboard sessions between interactive whiteboard appliance 102 and other devices.

[0019] Collaboration client 126 is an application that executes on interactive whiteboard appliance 102 and, in conjunction with collaboration server 108, supports videoconferencing sessions between interactive whiteboard appliance 102 and other devices. One non-limiting example implementation of collaboration manager 160 is a Microsoft Lync Client.

[0020] Application manager 128 is an application that executes on interactive whiteboard appliance 102 and manages interactive electronic whiteboard sessions and videoconferencing sessions between interactive whiteboard appliance 102 and other devices using functionality provided by OS 132 and collaboration library 136. Application manager 128 also, in conjunction with UI component 130, provides graphical user interface controls on display 120 that allow users to initiate and manage interactive electronic whiteboard sessions and videoconferencing sessions, including switching between interactive electronic whiteboard sessions and videoconferencing sessions. Although depicted in FIG. 1 as a separate element, application manager 128 may be integrated into interactive whiteboard application 124, for example, as a plug-in component.

[0021] Operating system 132 executes on computing architecture 140 and may be any type of operating system that may vary depending upon a particular implementation and embodiments are not limited to any particular implementation of operating system 132. Operating system 132 may include multiple operating systems of varying types, depending upon a particular implementation. OS API 134 provides access to functionality provided by OS 132. For example, interactive whiteboard application 124 may use OS API 134 to initiate or instantiate functionality provided by OS 132.

[0022] Collaboration library 136 provides functionality for establishing and managing videoconferencing sessions between collaboration client 126 and collaboration clients on other devices, such as collaboration client 146, 150. Collaboration library API 138 provides access to the functionality provided by collaboration library 136. For example, interactive whiteboard application 124 may invoke functionality provided by collaboration library 136 using collaboration library API 138. Functionality provided by collaboration library 136 may be provided, for example, by one or more applications and/or routines provided by the Microsoft Lync SDK.

[0023] Computing architecture 140 may include various elements that may vary depending upon a particular implementation and interactive whiteboard appliance 102 is not limited to any particular computing architecture 140. In the example depicted in FIG. 1, computing architecture includes a processor 142 and storage 144. Processor 142 may be any number and types of processors and storage 144 may be implemented by any number and types of memories, including volatile memory and non-volatile memory, which may vary depending upon a particular implementation. Computing architecture 140 may include additional hardware, firmware and software elements that may vary depending upon a particular implementation.

B. Collaboration Server

[0024] Collaboration server 108 may be implemented as any types of data repository for storing data. In the example depicted in FIG. 1, collaboration server 108 includes a collaboration manager 160 and storage 162. Collaboration manager 160 manages videoconferencing sessions conducted between interactive whiteboard appliance 102 and client devices 104, 106. One non-limiting example implementation of collaboration manager 160 is a Microsoft Lync Server. Storage 162 may be implemented by any number and types of memories, including volatile memory and non-volatile memory, which may vary depending upon a particular implementation. Storage 162 includes collaboration data 164 that stores information pertaining to videoconferencing sessions conducted between interactive whiteboard appliance 102 and client devices 104, 106. Collaboration server 108 may include various other components that may vary depending upon a particular implementation and collaboration server 108 is not limited to a particular set of components or features.

C. Client Device

[0025] Client devices 104, 106 may be any type of client devices and examples of client devices 104, 106 include, without limitation, a workstation, a personal computer, a laptop computer, a tablet computing device, a personal digital assistant or a smart phone. Client device 104, 106 include collaboration clients 140, 150, respectively, that support videoconferencing sessions conducted between interactive whiteboard appliance 102 and client devices 104, 106. One non-limiting example implementation of collaboration client 146, 150 is a Microsoft Lync Client.

III. ELECTRONIC WHITEBOARD AND VIDEOCONFERENCING SESSION INTEGRATION

[0026] The application manager 128 on interactive whiteboard appliance 102 is configured to cause to be generated and displayed graphical user interface controls that allow users to initiate and manage interactive electronic whiteboard sessions and videoconferencing sessions, including switching between interactive electronic whiteboard sessions and videoconferencing sessions. This includes maintaining a videoconferencing session window on top of an interactive whiteboard session window during videoconferencing sessions.

A. Startup

[0027] FIG 2A is a flow diagram 200 that depicts example activities performed during a startup process of interactive whiteboard appliance 102. In step 202, interactive whiteboard appliance 102 is powered up, for example, in response to a user physically switching on interactive whiteboard appliance 102, or in response to interactive whiteboard appliance 102 detecting an electronic signal. In step 204, application manager 128 is started and in step 206, interactive whiteboard application 124 is started. Interactive whiteboard application 124 may display content, allow a user to change how the content is displayed and allow the user to update the content, although at this point changes to the content are not being propagated to another device. According to one embodiment, application manager 128 ensures that interactive whiteboard session window 302 is topmost on interactive whiteboard display 300. This may include, for example, determining an operating system-level identification of the interactive whiteboard session window 302 and then invoking one or more functions in OS 132 to cause the interactive whiteboard session window 302 to remain on top. For example, in the context of a Microsoft windows OS, a FindWindow() function using a class name of the interactive whiteboard session window 302 may be invoked to determine an OS-level identifier for the interactive whiteboard session window 302, followed by a call to set the WS_EX_TOPMOST bit in the GWL_EXSTYLE field for the interactive whiteboard session window 302.

[0028] FIG. 3A depicts an example interactive whiteboard display 300 after interactive whiteboard appliance 102 has been powered up. Interactive whiteboard display 300 may be, for example, display 120 of FIG. 1 and includes an interactive whiteboard session window 302 and an interactive whiteboard session content area 304 that displays content items 306. A set of interactive whiteboard controls 308 allows a user to perform various functions with respect to interactive whiteboard session window 302, such as rotate, zoom and start annotation. A

collaboration menu icon 310 is displayed and as depicted in FIG. 3B, selection of the collaboration menu icon 310 causes a collaboration menu 312 to be displayed in step 508. Collaboration menu 312 provides user access to various controls for initiating and switching between an interactive whiteboard session window and a videoconferencing session window. At this point in time there is no current active videoconferencing session, so the “Show Videoconferencing Session” and “Share Whiteboard” menu options are disabled. The “Keyboard” menu option provides access to virtual keyboard displayed on display 120. In addition, a set of interactive whiteboard sharing controls 314 is disabled, since at this point in time there is no sharing of interactive whiteboard session window 302 with another device. In other embodiments, interactive whiteboard sharing controls 314 may not be displayed at all until interactive whiteboard session window 302 is shared with another device.

[0029] In step 510, application manager 128 starts monitoring for termination of the application manager 128 or for creation of a videoconferencing session via a selection from collaboration menu 312. For example, application manager 128 may instantiate a process that monitors for deletion of the interactive whiteboard application 124.

B. Establishing a Videoconferencing Session

[0030] FIG. 2B is a flow diagram 220 that depicts example activities performed during startup of a videoconferencing session. In step 222, in response to user selection of the “Start Videoconferencing Session” item from the collaboration menu 312, application manager 128 invokes the collaboration client 126. This may include, for example, invoking one or more OS-level functions to invoke the collaboration client 126 and in step 224, wait for a collaboration client window to be created. Once confirmation has been received that a collaboration client window has been created, then in step 226, the collaboration client window is set to the top and the interactive whiteboard session window is moved below. This may be accomplished by application manager 128 invoking one or more OS-level functions in OS 132. For example, in the context of a Microsoft windows OS, a FindWindow() function using a class name of the collaboration client window may be invoked to determine an OS-level identifier for the collaboration client window. The WS_EX_TOPMOST bit in the GWL_EXSTYLE field for the collaboration client window may then be set to move the collaboration client window to the top and the WS_EX_TOPMOST bit in the GWL_EXSTYLE field for the interactive whiteboard session window 302 removed or unset to move the interactive whiteboard session window 302 below. Notification may also be made to collaboration manager 160 that the interactive

whiteboard appliance 102 is now active and available to participate in videoconferencing sessions. Collaboration manager 160 may update collaboration data 164 to indicate this condition. In step 228, the application manager 128 starts monitoring for termination of the collaboration client 126 and start of a videoconferencing session. If termination of the collaboration client 126 is detected, then the interactive whiteboard session window 302 may be moved to the top as previously described. If start of a videoconferencing session is detected, then the videoconferencing session window is moved to the top. In step 230, the collaboration menu is updated.

[0031] FIG. 3C depicts interactive whiteboard display 300 after a user has selected the “Start Videoconferencing Session” option from collaboration menu 312. In response to this selection, application manager 128 causes a videoconferencing window 320 to be displayed in interactive whiteboard session content area 304. Videoconferencing window 320 includes a contact list 322 of candidate participants with whom a videoconferencing session may be initiated. In this example, the interactive whiteboard appliance 102 is considered to be “Participant #1.” Collaboration menu 312 is depicted in FIG. 3C for purposes of explanation, but may be hidden and then re-displayed via collaboration menu icon 310, as previously described herein.

[0032] FIG. 3D depicts interactive whiteboard display 300 after a videoconferencing session has been established between the interactive whiteboard appliance 102 (“Participant #1”) and Participant #2, for example, a user of client device 104. At this point in time, users of the interactive whiteboard appliance 102 and Participant #2 may engage in a videoconferencing session via videoconferencing window 320 and a corresponding videoconferencing window provided via collaboration client 146 on client device 104. Collaboration menu 312 has been updated to change the “Start Videoconferencing Session” option to “Stop Videoconferencing Session” and the “Share Whiteboard” option is now available for selection.

C. Sharing a Whiteboard

[0033] FIG. 2C is a flow diagram 240 that depicts a process for sharing a whiteboard after a videoconferencing session has been established. In step 242, application manager 128 monitors for selection of the “Share Whiteboard” option from collaboration menu 312. In step 244, the application manager 128 detects selection of the “Share Whiteboard” option from collaboration menu 312.

[0034] In step 246, application manager 128 invokes whiteboard sharing via collaboration library 136 which allows the interactive whiteboard session window 302 to be shared with

Participant #2 via client device 104. In step 248, application manager 128 causes the whiteboard sharing controls 314 to be displayed or enabled in interactive whiteboard session window 302. The whiteboard sharing controls 314 allow the users to select which user is currently presenting, to give control to another user, and/or to stop presenting. This allows users to dynamically share content as it is updated in the interactive whiteboard session content area 304. In step 250, the collaboration menu 312 is updated to reflect that whiteboard sharing is currently active. For example, FIG. 3E depicts that the collaboration menu 312 has been updated to make the “Show Videoconferencing Session” option active and to change the “Share Whiteboard” option to a “Stop Whiteboard Sharing” option. The controls provided in collaboration menu 312 allow a user to switch between the videoconferencing window 320 and the interactive whiteboard session window 302. In the situation where a user has selected the “Show Videoconferencing Session” option and the videoconferencing window 320 has been brought to the top, as previously described herein, the menu option “Show Videoconferencing Session” or “Stop Whiteboard Sharing” may be changed to “Show Whiteboard” to allow a user to easily switch between the videoconferencing window 320 and the interactive whiteboard session window 302.

IV. IMPLEMENTATION MECHANISMS

[0010] Although the flow diagrams of the present application depict a particular set of steps in a particular order, other implementations may use fewer or more steps, in the same or different order, than those depicted in the figures.

[0011] According to one embodiment, the techniques described herein are implemented by one or more special-purpose computing devices. The special-purpose computing devices may be hard-wired to perform the techniques, or may include digital electronic devices such as one or more application-specific integrated circuits (ASICs) or field programmable gate arrays (FPGAs) that are persistently programmed to perform the techniques, or may include one or more general purpose hardware processors programmed to perform the techniques pursuant to program instructions in firmware, memory, other storage, or a combination. Such special-purpose computing devices may also combine custom hard-wired logic, ASICs, or FPGAs with custom programming to accomplish the techniques. The special-purpose computing devices may be desktop computer systems, portable computer systems, handheld devices, networking devices or any other device that incorporates hard-wired and/or program logic to implement the techniques.

[0012] FIG. 4 is a block diagram that depicts an example computer system 400 upon which

embodiments may be implemented. Computer system 400 includes a bus 402 or other communication mechanism for communicating information, and a processor 404 coupled with bus 402 for processing information. Computer system 400 also includes a main memory 406, such as a random access memory (RAM) or other dynamic storage device, coupled to bus 402 for storing information and instructions to be executed by processor 404. Main memory 406 also may be used for storing temporary variables or other intermediate information during execution of instructions to be executed by processor 404. Computer system 400 further includes a read only memory (ROM) 408 or other static storage device coupled to bus 402 for storing static information and instructions for processor 404. A storage device 410, such as a magnetic disk or optical disk, is provided and coupled to bus 402 for storing information and instructions.

[0013] Computer system 400 may be coupled via bus 402 to a display 412, such as a cathode ray tube (CRT), for displaying information to a computer user. Although bus 402 is illustrated as a single bus, bus 402 may comprise one or more buses. For example, bus 402 may include without limitation a control bus by which processor 404 controls other devices within computer system 400, an address bus by which processor 404 specifies memory locations of instructions for execution, or any other type of bus for transferring data or signals between components of computer system 400.

[0014] An input device 414, including alphanumeric and other keys, is coupled to bus 402 for communicating information and command selections to processor 404. Another type of user input device is cursor control 416, such as a mouse, a trackball, or cursor direction keys for communicating direction information and command selections to processor 404 and for controlling cursor movement on display 412. This input device typically has two degrees of freedom in two axes, a first axis (e.g., x) and a second axis (e.g., y), that allows the device to specify positions in a plane.

[0015] Computer system 400 may implement the techniques described herein using customized hard-wired logic, one or more ASICs or FPGAs, firmware and/or program logic or computer software which, in combination with the computer system, causes or programs computer system 400 to be a special-purpose machine. According to one embodiment, those techniques are performed by computer system 400 in response to processor 404 processing instructions stored in main memory 406. Such instructions may be read into main memory 406 from another computer-readable medium, such as storage device 410. Processing of the instructions contained in main memory 406 by processor 404 causes performance of the

functionality described herein. In alternative embodiments, hard-wired circuitry may be used in place of or in combination with software instructions to implement the embodiments. Thus, embodiments are not limited to any specific combination of hardware circuitry and software.

[0016] The term “computer-readable medium” as used herein refers to any medium that participates in providing data that causes a computer to operate in a specific manner. In an embodiment implemented using computer system 400, various computer-readable media are involved, for example, in providing instructions to processor 404 for execution. Such a medium may take many forms, including but not limited to, non-volatile media and volatile media. Non-volatile media includes, for example, optical or magnetic disks, such as storage device 410. Volatile media includes dynamic memory, such as main memory 406. Common forms of computer-readable media include, without limitation, a floppy disk, a flexible disk, hard disk, magnetic tape, or any other magnetic medium, a CD-ROM, any other optical medium, a RAM, a PROM, and EPROM, a FLASH-EPROM, any other memory chip, memory cartridge or memory stick, or any other medium from which a computer can read.

[0017] Various forms of computer-readable media may be involved in storing instructions for processing by processor 404. For example, the instructions may initially be stored on a storage medium of a remote computer and transmitted to computer system 400 via one or more communications links. Bus 402 carries the data to main memory 406, from which processor 404 retrieves and processes the instructions. The instructions received by main memory 406 may optionally be stored on storage device 410 either before or after processing by processor 404.

[0018] Computer system 400 also includes a communication interface 418 coupled to bus 402. Communication interface 418 provides a communications coupling to a network link 420 that is connected to a local network 422. For example, communication interface 418 may be a modem to provide a data communication connection to a telephone line. As another example, communication interface 418 may be a local area network (LAN) card to provide a data communication connection to a compatible LAN. Wireless links may also be implemented. In any such implementation, communication interface 418 sends and receives electrical, electromagnetic or optical signals that carry digital data streams representing various types of information.

[0019] Network link 420 typically provides data communication through one or more networks to other data devices. For example, network link 420 may provide a connection through local network 422 to a host computer 424 or to data equipment operated by an Internet

Service Provider (ISP) 426. ISP 426 in turn provides data communication services through the world wide packet data communication network now commonly referred to as the “Internet” 428. Local network 422 and Internet 428 both use electrical, electromagnetic or optical signals that carry digital data streams.

[0020] Computer system 400 can send messages and receive data, including program code, through the network(s), network link 420 and communication interface 418. In the Internet example, a server 430 might transmit a requested code for an application program through Internet 428, ISP 426, local network 422 and communication interface 418. The received code may be processed by processor 404 as it is received, and/or stored in storage device 410, or other non-volatile storage for later execution.

In the foregoing specification, embodiments have been described with reference to numerous specific details that may vary from implementation to implementation. Thus, the sole and exclusive indicator of what is, and is intended by the applicants to be, the invention is the set of claims that issue from this application, in the specific form in which such claims issue, including any subsequent correction. Hence, no limitation, element, property, feature, advantage or attribute that is not expressly recited in a claim should limit the scope of such claim in any way. The specification and drawings are, accordingly, to be regarded in an illustrative rather than a restrictive sense.

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances		
First Named Inventor/Applicant Name:		Steven Nelson		
Filer:		Edward A. Becker/Viktoria Neill		
Attorney Docket Number:		49986-0955		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	300	300
UTILITY SEARCH FEE	1111	1	660	660
UTILITY EXAMINATION FEE	1311	1	760	760
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1720



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
16/507,952	07/10/2019	2447	1720	49986-0955	1	1

CONFIRMATION NO. 7543

FILING RECEIPT



0000000109886506

29989
HICKMAN PALERMO BECKER BINGHAM LLP
1 ALMADEN BOULEVARD
FLOOR 12
SAN JOSE, CA 95113

Date Mailed: 07/25/2019

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Steven Nelson, San Jose, CA;
Lana Wong, Randolph, NJ;
Hiroshi Kitada, Tuckahoe, NY;

Applicant(s)

Steven Nelson, San Jose, CA;
Lana Wong, Randolph, NJ;
Hiroshi Kitada, Tuckahoe, NY;

Assignment For Published Patent Application

RICOH COMPANY, LTD., Tokyo, JAPAN

Power of Attorney: The patent practitioners associated with Customer Number 29989

Domestic Priority data as claimed by applicant

This application is a CON of 15/637,006 06/29/2017
which is a CON of 14/708,186 05/09/2015 PAT 9699411

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

page 1 of 4

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 07/24/2019

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/507,952**

Projected Publication Date: 10/31/2019

Non-Publication Request: No

Early Publication Request: No

Title

Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances

Preliminary Class

709

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

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For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

page 2 of 4

countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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PATENT APPLICATION FEE DETERMINATION RECORD						Application or Docket Number 16/507,952																																																																									
Substitute for Form PTO-875																																																																															
APPLICATION AS FILED - PART I <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;"></th> <th style="width: 25%; text-align: center;">(Column 1)</th> <th style="width: 25%; text-align: center;">(Column 2)</th> <th style="width: 25%;"></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">FOR</td> <td style="text-align: center;">NUMBER FILED</td> <td style="text-align: center;">NUMBER EXTRA</td> <td></td> </tr> <tr> <td>BASIC FEE (37 CFR 1.16(a), (b), or (c))</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> <td></td> </tr> <tr> <td>SEARCH FEE (37 CFR 1.16(k), (i), or (m))</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> <td></td> </tr> <tr> <td>EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> <td></td> </tr> <tr> <td>TOTAL CLAIMS (37 CFR 1.16(i))</td> <td style="text-align: center;">1</td> <td style="text-align: center;">minus 20 =</td> <td style="text-align: center;">*</td> </tr> <tr> <td>INDEPENDENT CLAIMS (37 CFR 1.16(h))</td> <td style="text-align: center;">1</td> <td style="text-align: center;">minus 3 =</td> <td style="text-align: center;">*</td> </tr> <tr> <td>APPLICATION SIZE FEE (37 CFR 1.16(s))</td> <td colspan="3">If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).</td> </tr> <tr> <td colspan="4">MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))</td> </tr> </tbody> </table> SMALL ENTITY <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">RATE(\$)</th> <th style="width: 50%;">FEE(\$)</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">N/A</td><td></td></tr> <tr><td style="text-align: center;">N/A</td><td></td></tr> <tr><td style="text-align: center;">N/A</td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr> <td style="text-align: center;">TOTAL</td> <td></td> </tr> </tbody> </table> OR OTHER THAN SMALL ENTITY <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">RATE(\$)</th> <th style="width: 50%;">FEE(\$)</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">N/A</td><td style="text-align: center;">300</td></tr> <tr><td style="text-align: center;">N/A</td><td style="text-align: center;">660</td></tr> <tr><td style="text-align: center;">N/A</td><td style="text-align: center;">760</td></tr> <tr> <td style="text-align: center;">x 100 =</td> <td style="text-align: center;">0.00</td> </tr> <tr> <td style="text-align: center;">x 460 =</td> <td style="text-align: center;">0.00</td> </tr> <tr><td></td><td style="text-align: center;">0.00</td></tr> <tr><td></td><td style="text-align: center;">0.00</td></tr> <tr> <td style="text-align: center;">TOTAL</td> <td style="text-align: center;">1720</td> </tr> </tbody> </table>									(Column 1)	(Column 2)		FOR	NUMBER FILED	NUMBER EXTRA		BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		TOTAL CLAIMS (37 CFR 1.16(i))	1	minus 20 =	*	INDEPENDENT CLAIMS (37 CFR 1.16(h))	1	minus 3 =	*	APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				RATE(\$)	FEE(\$)	N/A		N/A		N/A										TOTAL		RATE(\$)	FEE(\$)	N/A	300	N/A	660	N/A	760	x 100 =	0.00	x 460 =	0.00		0.00		0.00	TOTAL	1720
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* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.																																																																															

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	) Group Art Unit: 2447
	)
Steven Nelson, et al.	) Examiner: TBD
	)
Application No. 16,507,952	)
	)
Filed: July 10, 2019	)
	)
For: Integration of Videoconferencing with	)
Interactive Electronic Whiteboard Appliances	)

Mail Stop Amendment via EFS-Web

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

PRELIMINARY AMENDMENT

Sir or Madam:

Prior to examination of the application referenced above, please amend the claims as indicated hereinafter.

RSID 1-865C2_FN201903565_49986-0955

A. AMENDMENTS TO CLAIMS

Please cancel Claim 1 and add new claims 2-21 as indicated hereinafter.

1. (Canceled)
2. (New) A whiteboard device comprising:
 - a display;
 - a network interface;
 - one or more processors; and
 - one or more memories communicatively coupled to the one or more processors, the one or more memories storing instructions which, when processed by the one or more processors; cause:
 - an interactive whiteboard session window, including at least an interactive whiteboard session content area, to be displayed on the display, wherein a selection menu to receive an instruction for starting a video conference session is overlaid on the interactive whiteboard session window; and
 - after receiving the instruction for starting the video conference session via the selection menu overlaid on the interactive whiteboard session window, a videoconference window to be overlaid on the interactive whiteboard session window.
3. (New) The whiteboard device of Claim 2, wherein the videoconference window displays at least content from a device of a participant of the video conference session.
4. (New) The whiteboard device of Claim 2, wherein processing of the instructions further causes:
 - after the videoconference window being overlaid on the interactive whiteboard session window, display a second selection menu to receive an instruction for stopping the video conference session overlaid on the interactive whiteboard session window.

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5. (New) The whiteboard device of Claim 2, wherein the videoconferencing window is maintained on top of the interactive whiteboard window during a videoconferencing session.
6. (New) The whiteboard device of Claim 2, wherein processing of the instructions further causes the interactive whiteboard session window to be moved on top of the videoconference window in response to termination of the video conference session.
7. (New) The whiteboard device of Claim 2, wherein processing of the instructions further causes an interactive whiteboard session to be shared with the one or more client devices that are external to the whiteboard device by invoking functionality provided by a collaboration library on the whiteboard device.
8. (New) The whiteboard device of Claim 2, wherein processing of the instructions further causes the selection menu to be updated in response to detecting a user selection of a particular control on the selection menu for switching between an interactive whiteboard session and the video conference session.
9. (New) One or more non-transitory computer-readable media storing instructions which, when processed by one or more processors, cause:
an interactive whiteboard session window, including at least an interactive whiteboard session content area, to be displayed on a display of a whiteboard device, wherein a selection menu to receive an instruction for starting a video conference session is overlaid on the interactive whiteboard session window; and
after receiving the instruction for starting the video conference session via the selection menu overlaid on the interactive whiteboard session window, a videoconference window to be overlaid on the interactive whiteboard session window.
10. (New) The one or more non-transitory computer-readable media of Claim 9, wherein the videoconference window displays at least content from a device of a participant of the video conference session.

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11. (New) The one or more non-transitory computer-readable media of Claim 9, further comprising additional instructions which, when processed by the one or more processors, causes:
after the videoconference window being overlaid on the interactive whiteboard session window, display a second selection menu to receive an instruction for stopping the video conference session overlaid on the interactive whiteboard session window.
12. (New) The one or more non-transitory computer-readable media of Claim 9, wherein the videoconferencing window is maintained on top of the interactive whiteboard window during a videoconferencing session.
13. (New) The one or more non-transitory computer-readable media of Claim 9, further comprising additional instructions which, when processed by the one or more processors, causes the interactive whiteboard session window to be moved on top of the videoconference window in response to termination of the video conference session.
14. (New) The one or more non-transitory computer-readable media of Claim 9, further comprising additional instructions which, when processed by the one or more processors, causes an interactive whiteboard session to be shared with the one or more client devices that are external to the whiteboard device by invoking functionality provided by a collaboration library on the whiteboard device.
15. (New) The interactive whiteboard appliance of Claim 9, further comprising additional instructions which, when processed by the one or more processors, causes the selection menu to be updated in response to detecting a user selection of a particular control on the selection menu for switching between an interactive whiteboard session and the video conference session.
16. (New) A computer-implemented method comprising:

RSID 1-865C2_FN201903565_49986-0955

an interactive whiteboard session window, including at least an interactive whiteboard session content area, to be displayed on a display of a whiteboard device, wherein a selection menu to receive an instruction for starting a video conference session is overlaid on the interactive whiteboard session window; and
after receiving the instruction for starting the video conference session via the selection menu overlaid on the interactive whiteboard session window, a videoconference window to be overlaid on the interactive whiteboard session window.

17. (New) The computer-implemented method of Claim 16, wherein the videoconference window displays at least content from a device of a participant of the video conference session.
18. (New) The computer-implemented method of Claim 16, further comprising:
after the videoconference window being overlaid on the interactive whiteboard session window, display a second selection menu to receive an instruction for stopping the video conference session overlaid on the interactive whiteboard session window.
19. (New) The computer-implemented method of Claim 16, wherein the videoconferencing window is maintained on top of the interactive whiteboard window during a videoconferencing session.
20. (New) The computer-implemented method of Claim 16, further comprising causing the interactive whiteboard session window to be moved on top of the videoconference window in response to termination of the video conference session.
21. (New) The computer-implemented method of Claim 16, further comprising causing an interactive whiteboard session to be shared with the one or more client devices that are external to the whiteboard device by invoking functionality provided by a collaboration library on the whiteboard device.

Electronic Acknowledgement Receipt	
EFS ID:	37606299
Application Number:	16507952
International Application Number:	
Confirmation Number:	7543
Title of Invention:	Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances
First Named Inventor/Applicant Name:	Steven Nelson
Customer Number:	29989
Filer:	Edward A. Becker
Filer Authorized By:	
Attorney Docket Number:	49986-0955
Receipt Date:	30-OCT-2019
Filing Date:	10-JUL-2019
Time Stamp:	14:22:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		16507952PrelimAmendasfiled.pdf	86666	yes	6
			0faa01135eeb46e58f8ba1e33062c2064a043381		

Multipart Description/PDF files in .zip description			
Document Description	Start	End	
Preliminary Amendment	1	1	
Claims	2	5	
Applicant Arguments/Remarks Made in an Amendment	6	6	
Warnings:			
Information:			
Total Files Size (in bytes):		86666	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.			

B. REMARKS

By this amendment, Claim 1 is canceled and new Claims 2-21 are added. Hence, Claims 2-21 are pending in this application. The new claims do not add any new matter to this application.

If any applicable fee is missing or insufficient, throughout the pendency of this application, the Commissioner is hereby authorized to charge any applicable fees and to credit any overpayments to our Deposit Account No. 50-1302.

The Examiner is invited to contact the undersigned by telephone if the Examiner believes that such contact would be helpful in furthering the prosecution of this application.

Respectfully submitted,

HICKMAN PALERMO BECKER
BINGHAM LLP

/EdwardABecker#37777/

Edward A. Becker

Reg. No. 37,777

Date: October 30, 2019

1 Almaden Boulevard, Floor 12
San Jose, CA 95113
(408) 414-1204
Facsimile: (408) 414-1076
Email: ebecker@hickmanpalermo.com

RSID 1-865C2_FN201903565_49986-0955

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 16/507,952		Filing Date 07/10/2019		☐ To be Mailed	
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO									
APPLICATION AS FILED - PART I									
		(Column 1)		(Column 2)					
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A			
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A		N/A		N/A			
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A			
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =	*			x \$100 =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =	*			x \$460 =			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL			
APPLICATION AS AMENDED - PART II									
		(Column 1)		(Column 2)	(Column 3)				
AMENDMENT	10/30/2019	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	x \$100 =		0	
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	x \$460 =		0	
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE		0	
		(Column 1)		(Column 2)	(Column 3)				
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =			
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =			
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						LIE			
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/BRENDA V HARRISON/			
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".									
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/507,952	07/10/2019	Steven Nelson	49986-0955

CONFIRMATION NO. 7543

PUBLICATION NOTICE

29989
HICKMAN PALERMO BECKER BINGHAM LLP
1 ALMADEN BOULEVARD
FLOOR 12
SAN JOSE, CA 95113



Title:Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances

Publication No.US-2019-0335143-A1

Publication Date:10/31/2019

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publicly available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <https://portal.uspto.gov/pair/PublicPair>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

<i>Notice of References Cited</i>	Application/Control No. 16/507,952		Applicant(s)/Patent Under Reexamination Nelson et al.	
	Examiner HEMANT PATEL		Art Unit 2653	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-8713454-B2	04-2014	Sriraghavan; Priyanka G.	G06F9/455	715/753
*	B	US-20060167996-A1	07-2006	Orsolini; Garry S.	G06Q10/10	709/204
*	C	US-20080184115-A1	07-2008	Back; Maribeth Joy	G06Q10/00	715/702
*	D	US-20150009278-A1	01-2015	Modai; Ori	H04N7/15	348/14.08
*	E	US-20080098295-A1	04-2008	Nelson; Steve	H04L29/06027	715/233
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office
PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20191106

Bibliographic Data

Application No: 16/507,952

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☐ Met After Allowance

Verified and Acknowledged: /HEMANT S PATEL/

Examiner's Signature

Initials

Title:

Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
07/10/2019	348	2653	49986-0955
RULE			

APPLICANTS

INVENTORS

Steven Nelson San Jose, CA, UNITED STATES

Lana Wong Randolph, NJ, UNITED STATES

Hiroshi Kitada Tuckahoe, NY, UNITED STATES

CONTINUING DATA

This application is a CON of 15637006 06/29/2017 PAT 10397520

15637006 is a CON of 14708186 05/09/2015 PAT 9699411

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

07/24/2019

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\$1,720



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/507,952	07/10/2019	Steven Nelson	49986-0955	7543
29989	7590	04/27/2020		
HICKMAN PALERMO BECKER BINGHAM LLP			EXAMINER	
1 ALMADEN BOULEVARD			PATEL, HEMANT SHANTILAL	
FLOOR 12				
SAN JOSE, CA 95113			ART UNIT	PAPER NUMBER
			2653	
			NOTIFICATION DATE	DELIVERY MODE
			04/27/2020	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usdocket@h35g.com

Office Action Summary	Application No. 16/507,952	Applicant(s) Nelson et al.	
	Examiner HEMANT PATEL	Art Unit 2653	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10/30/2019.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

- 5) ☒ Claim(s) 2-21 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☒ Claim(s) 2-14 and 16-21 is/are allowed.
- 7) ☒ Claim(s) 15 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
Certified copies:
- a) ☐ All b) ☐ Some** c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date ____.
- 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date ____.
- 4) ☐ Other: ____.

U.S. Patent and Trademark Office

PTOL-326 (Rev. 11-13)

Office Action Summary

Part of Paper No./Mail Date 20191106

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.
2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

Claim Rejections - 35 USC § 112

3. The following is a quotation of 35 U.S.C. 112(b):
(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
4. Claim 15 is rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention. Claim 15 recites "The interactive whiteboard appliance of Claim 9", however claim 9 recites "One or more non-transitory computer-readable media storing instructions...". It is not clear if claim 15 is meant to be "appliance" or "non-transitory computer-readable media".

Allowable Subject Matter

5. Claims 2-14, 16-21 are allowed.

Independent claims 2, 9, 16, the prior art of record Orsolini (US Patent Application Publication No. 2006/0167996) teaches a whiteboard display with control buttons to switch between video and whiteboard with capability to annotate and control buttons to take and share snapshots of whiteboard (Figs. 2-6). Another prior art of record Nelson (US Patent Application Publication No. 2008/0098295) teaches whiteboard display to switch between video and whiteboard with controls to enable annotations, and sharing of presentation (Figs. 5A, 5B, 6, 7A, 7B). Still another prior art Back (US Patent Application Publication No. 2008/0184115) teaches a split display mechanism with controls to switch between conference video and presentation with individual control buttons for each (Figs. 5-13). Another prior art of record Sriraghavan (US Patent No. 8,713,454) teaches virtual whiteboard with virtual workspace and different control buttons (Fig. 6A). Prior art of record Modai (US Patent Application Publication No. 2015/0009278) teaches whiteboard display with overlaid optional control strip (Fig. 1A, items 102, 140).

These and other prior art of record alone or in combination fail to teach or fairly suggest to arrive at the claimed invention as claimed in detail when the claims are considered as a whole. For example, the prior art fail to teach a whiteboard session window with overlaid menu on to it to enable selection to start videoconference and then overlaying the videoconference window on the interactive whiteboard session window.

6. Claim 15 is objected to as it is rejected under 35 USC 112 as indicated above.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HEMANT PATEL whose telephone number is (571)272-8620. The examiner can normally be reached on M-F 8:00 AM - 4:30 PM EST.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on 571-272-7547. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HEMANT PATEL
Primary Examiner
Art Unit 2653

Application/Control Number: 16/507,952
Art Unit: 2653

Page 5

/HEMANT S PATEL/
Primary Examiner, Art Unit 2653

<i>Index of Claims</i> 	Application/Control No. 16/507,952	Applicant(s)/Patent Under Reexamination Nelson et al.
	Examiner HEMANT PATEL	Art Unit 2653

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM			DATE							
Final	Original	04/22/2020								
	1	-								
	2	=								
	3	=								
	4	=								
	5	=								
	6	=								
	7	=								
	8	=								
	9	=								
	10	=								
	11	=								
	12	=								
	13	=								
	14	=								
	15	✓								
	16	=								
	17	=								
	18	=								
	19	=								
	20	=								
	21	=								

<i>Search Notes</i> 	Application/Control No. 16/507,952	Applicant(s)/Patent Under Reexamination Nelson et al.
	Examiner HEMANT PATEL	Art Unit 2653

CPC - Searched*		
Symbol	Date	Examiner
G06F 3/0482,0484	11/01/2019	HSP
H04L 12/1813,1822,1827, 65/403	11/01/2019	HSP
H04M 3/567, 7/0027	11/01/2019	HSP
H04N 7/15,155	11/01/2019	HSP

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
348	14.01-14.16	11/01/2019	HSP
370	259-271	11/01/2019	HSP
379	201.01,202.01-207.01	11/01/2019	HSP
709	201-207,217-248	11/01/2019	HSP

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Search in EAST, Patent seacrh	11/01/2019	HSP
Text search	11/06/2019	HSP

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<i>Search Notes</i> 	Application/Control No. 16/507,952	Applicant(s)/Patent Under Reexamination Nelson et al.
	Examiner HEMANT PATEL	Art Unit 2653

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
G06F	3/0482,0484	11/01/2019	HSP
H04L	12/1813,1822,1827, 65/403	11/01/2019	HSP
H04M	3/567, 7/0027	11/01/2019	HSP
H04N	7/15,155	11/01/2019	HSP

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	4	((("9699411") or ("10397520")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2019/11/01 14:38
S2	37091	(whiteboard or ((common or shared) display))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 17:26
S3	111210	(videoconference or teleconference or ((video or tele or multimedia or (multi media)) conferenc\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 17:27
S4	1324	(S2 with S3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 17:27
S5	80	(S4 with ((control or controlling or start\$3 or initiat\$3 or stop\$4 or end\$3 or terminat\$3) near4 (button or icon or control)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 17:30
S6	2	(S5 and G06F3/0482,0484.cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 17:33
S7	23	(S5 and (H04L12/1813,1822,1827 or H04L65/403).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 17:34
S8	23	(S5 and (H04M3/567 or	US-PGPUB;	ADJ	ON	2019/11/01

		H04M7/0027).cpc.)	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			17:40
S9	29	(S5 and (H04N7/15,155).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 17:41
S10	27	(S5 and (H04N7/14\$,15\$,16\$,17\$,18\$).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 17:42
S11	49	(S5 not S6 not S7 not S8 not S9 not S10)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 17:42
S12	18	((S4 not S5) same ((control or controlling or start\$3 or initiat\$3 or stop\$4 or end\$3 or terminat\$3) near4 (button or icon or control)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 17:44
S13	2680	(S3 with ((control or controlling or start\$3 or initiat\$3 or stop\$4 or end\$3 or terminat\$3) near4 (button or icon or control)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 17:53
S14	2600	(S13 not S5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 17:54
S15	3	(S2 SAME S14)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 17:55
S16	1086	(S2 with ((control or controlling or start\$3 or initiat\$3 or stop\$4 or end\$3 or terminat\$3) near4 (button or icon or control)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	ADJ	ON	2019/11/01 17:56

			IBM_TDB			
S17	47	(S16 and G06F3/0482,0484.cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 17:57
S18	86	((S16 NOT S17) and (H04L12/1813,1822,1827 or H04L65/403).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 18:03
S19	5	((S16 NOT S17 NOT S18) and (H04M3/567 or H04M7/0027).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 18:21
S20	66	((S16 NOT S17 NOT S18) and (H04N7/15,155).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 18:21
S21	5	((S16 NOT S17 NOT S18 NOT S20) and (H04N7/14\$,15\$,16\$,17\$,18\$).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 18:26
S22	7	((S16 NOT S17 NOT S18 NOT S20) and 348/14.01-14.16.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 18:26
S23	4	((S16 NOT S17 NOT S18 NOT S20) and 370/259-271.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 18:29
S24	1	((S16 NOT S17 NOT S18 NOT S20) and 379/201.01,202.01-207.1.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/01 18:29
S25	78	((S16 NOT S17 NOT S18 NOT S20) and 709/201-207,217-248.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO;	ADJ	ON	2019/11/01 18:30

			JPO; DERWENT; IBM_TDB			
S26	61081	(whiteboard or (presentation display))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/05 17:29
S27	9440	(S26 with (control or button or key or icon))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/05 17:29
S28	111317	(videoconference or teleconference or ((video or tele or multimedia or (multimedia)) conferenc\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/05 17:31
S29	307	(S27 same S28)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/05 17:31
S30	10	(S29 and G06F3/0482,0484.cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/05 17:32
S31	126	(S29 and (H04L12/1813,1822,1827 or H04L65/403).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/05 17:33
S32	5	((S29 not S30 not S31) and (H04M3/567 or H04M7/0027).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/05 17:46
S33	47	((S29 not S30 not S31) and (H04N7/15,155).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/05 17:49
S34	6	((("20160364051") or ("20150189160") or ("20150172562")).PN.	US-PGPUB; USPAT;	OR	OFF	2019/11/05 17:54

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S35	76525	(whiteboard or ((common or shared or presentation) display))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/06 09:35
S36	0	(S35 with (((to" or "for") (control or controlling or start\$3 or initiat\$3 or stop\$4 or end\$3 or terminat\$3)) near4 (button or icon or control or menu)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/06 09:37
S37	0	(S35 same (((to" or "for") (control or controlling or start\$3 or initiat\$3 or stop\$4 or end\$3 or terminat\$3)) near4 (button or icon or control or menu)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/06 09:38
S38	2816	(S35 with ((control or controlling or start\$3 or initiat\$3 or stop\$4 or end\$3 or terminat\$3) near4 (button or icon or control or menu)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/06 10:07
S39	111317	(videoconference or teleconference or ((video or tele or multimedia or (multi media)) conferenc\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/06 10:09
S40	80	(S38 WITH S39)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2019/11/06 10:09

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S41	0	((whiteboard session window) and overlaid and menu and (videoconference window)).clm.	US-PGPUB; USPAT	ADJ	ON	2019/11/06 13:22

11/ 6/ 2019 1:23:43 PM

C:\Users\hpatel1\Documents\EAST\Workspaces\16507952_20191101.wsp

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Steven Nelson et al.

Application No.: 16/507,952

Filed on: July 10, 2019

For: Integration of Videoconferencing with
Interactive Electronic Whiteboard Appliances

Group Art Unit No.: 2653

Examiner: Hemant Shantilal
Patel

Confirmation No.: 7543

Mail Stop Amendment via EFS-Web

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

REPLY TO OFFICE ACTION WITH AMENDMENT

Sir or Madam:

This reply is submitted in response to the Office Action mailed April 27, 2020.

49986-0955 (RSID 1-865C2_FN2019035651)

A. AMENDMENTS TO CLAIMS

1. (Canceled)
2. (Previously Presented) A whiteboard device comprising:
 - a display;
 - a network interface;
 - one or more processors; and
 - one or more memories communicatively coupled to the one or more processors, the one or more memories storing instructions which, when processed by the one or more processors; cause:
 - an interactive whiteboard session window, including at least an interactive whiteboard session content area, to be displayed on the display, wherein a selection menu to receive an instruction for starting a video conference session is overlaid on the interactive whiteboard session window; and
 - after receiving the instruction for starting the video conference session via the selection menu overlaid on the interactive whiteboard session window, a videoconference window to be overlaid on the interactive whiteboard session window.
3. (Previously Presented) The whiteboard device of Claim 2, wherein the videoconference window displays at least content from a device of a participant of the video conference session.
4. (Previously Presented) The whiteboard device of Claim 2, wherein processing of the instructions further causes:
 - after the videoconference window being overlaid on the interactive whiteboard session window, display a second selection menu to receive an instruction for stopping the video conference session overlaid on the interactive whiteboard session window.

5. (Previously Presented) The whiteboard device of Claim 2, wherein the videoconferencing window is maintained on top of the interactive whiteboard window during a videoconferencing session.
6. (Previously Presented) The whiteboard device of Claim 2, wherein processing of the instructions further causes the interactive whiteboard session window to be moved on top of the videoconference window in response to termination of the video conference session.
7. (Previously Presented) The whiteboard device of Claim 2, wherein processing of the instructions further causes an interactive whiteboard session to be shared with the one or more client devices that are external to the whiteboard device by invoking functionality provided by a collaboration library on the whiteboard device.
8. (Previously Presented) The whiteboard device of Claim 2, wherein processing of the instructions further causes the selection menu to be updated in response to detecting a user selection of a particular control on the selection menu for switching between an interactive whiteboard session and the video conference session.
9. (Previously Presented) One or more non-transitory computer-readable media storing instructions which, when processed by one or more processors, cause:
 - an interactive whiteboard session window, including at least an interactive whiteboard session content area, to be displayed on a display of a whiteboard device, wherein a selection menu to receive an instruction for starting a video conference session is overlaid on the interactive whiteboard session window; and
 - after receiving the instruction for starting the video conference session via the selection menu overlaid on the interactive whiteboard session window, a videoconference window to be overlaid on the interactive whiteboard session window.

10. (Previously Presented) The one or more non-transitory computer-readable media of Claim 9, wherein the videoconference window displays at least content from a device of a participant of the video conference session.
11. (Previously Presented) The one or more non-transitory computer-readable media of Claim 9, further comprising additional instructions which, when processed by the one or more processors, causes:
after the videoconference window being overlaid on the interactive whiteboard session window, display a second selection menu to receive an instruction for stopping the video conference session overlaid on the interactive whiteboard session window.
12. (Previously Presented) The one or more non-transitory computer-readable media of Claim 9, wherein the videoconferencing window is maintained on top of the interactive whiteboard window during a videoconferencing session.
13. (Previously Presented) The one or more non-transitory computer-readable media of Claim 9, further comprising additional instructions which, when processed by the one or more processors, causes the interactive whiteboard session window to be moved on top of the videoconference window in response to termination of the video conference session.
14. (Previously Presented) The one or more non-transitory computer-readable media of Claim 9, further comprising additional instructions which, when processed by the one or more processors, causes an interactive whiteboard session to be shared with the one or more client devices that are external to the whiteboard device by invoking functionality provided by a collaboration library on the whiteboard device.
15. (Currently Amended) The one or more non-transitory computer-readable media~~an interactive whiteboard appliance~~ of Claim 9, further comprising additional instructions which, when processed by the one or more processors, causes the selection menu to be updated in response to detecting a user selection of a particular control on the

selection menu for switching between an interactive whiteboard session and the video conference session.

16. (Previously Presented) A computer-implemented method comprising:
an interactive whiteboard session window, including at least an interactive whiteboard session content area, to be displayed on a display of a whiteboard device, wherein a selection menu to receive an instruction for starting a video conference session is overlaid on the interactive whiteboard session window; and
after receiving the instruction for starting the video conference session via the selection menu overlaid on the interactive whiteboard session window, a videoconference window to be overlaid on the interactive whiteboard session window.
17. (Previously Presented) The computer-implemented method of Claim 16, wherein the videoconference window displays at least content from a device of a participant of the video conference session.
18. (Previously Presented) The computer-implemented method of Claim 16, further comprising:
after the videoconference window being overlaid on the interactive whiteboard session window, display a second selection menu to receive an instruction for stopping the video conference session overlaid on the interactive whiteboard session window.
19. (Previously Presented) The computer-implemented method of Claim 16, wherein the videoconferencing window is maintained on top of the interactive whiteboard window during a videoconferencing session.
20. (Previously Presented) The computer-implemented method of Claim 16, further comprising causing the interactive whiteboard session window to be moved on top of the videoconference window in response to termination of the video conference session.

21. (Previously Presented) The computer-implemented method of Claim 16, further comprising causing an interactive whiteboard session to be shared with the one or more client devices that are external to the whiteboard device by invoking functionality provided by a collaboration library on the whiteboard device.

Electronic Acknowledgement Receipt	
EFS ID:	40097572
Application Number:	16507952
International Application Number:	
Confirmation Number:	7543
Title of Invention:	Integration of Videoconferencing with Interactive Electronic Whiteboard Appliances
First Named Inventor/Applicant Name:	Steven Nelson
Customer Number:	29989
Filer:	Edward A. Becker
Filer Authorized By:	
Attorney Docket Number:	49986-0955
Receipt Date:	24-JUL-2020
Filing Date:	10-JUL-2019
Time Stamp:	13:44:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment		no			
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		RSID1-865C2_FN201903565_49 986-0955_Response.pdf	95183 7437ed44d6fbf248087d5c1a2276ec7dd9d df497	yes	8

Multipart Description/PDF files in .zip description			
Document Description	Start	End	
Amendment/Req. Reconsideration-After Non-Final Reject	1	1	
Claims	2	6	
Applicant Arguments/Remarks Made in an Amendment	7	8	

Warnings:

Information:

Total Files Size (in bytes):	95183
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

B. REMARKS

The Examiner is thanked for the performance of a thorough search. No claims are added or canceled in this reply. Hence, Claims 1-20 are pending in this application. All issues raised in the Office Action mailed April 27, 2020 are addressed hereinafter. Reconsideration is respectfully requested in view of the amendments and remarks provided herein.

ALLOWABILITY OF CLAIMS

The indicated allowability of Claims 2-14 and 16-21 is gratefully acknowledged. Claim 15 has been amended to resolve the rejection under 35 U.S.C. § 112, second paragraph, as indicated below. Accordingly, it is believed that all of the pending claims are in condition for allowance.

REJECTION OF CLAIM 15 UNDER 35 U.S.C. § 112, SECOND PARAGRAPH

Claim 15 is rejected under 35 U.S.C. § 112, second paragraph as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or joint inventor, or for pre-AIA the applicant regards as the invention. Claim 15 has been amended to change the preamble to properly refer to Claim 9. Accordingly, reconsideration and withdrawal of the rejection of Claim 15 under 35 U.S.C. § 112, second paragraph, is respectfully requested.

CONCLUSION

It is respectfully submitted that all of the pending claims are in condition for allowance and the issuance of a notice of allowance is respectfully requested. If any applicable fee is missing or insufficient, throughout the pendency of this application, the Commissioner is hereby authorized to charge any applicable fees and to credit any overpayments to our Deposit Account No. 50-1302. The Examiner is invited to contact the undersigned by telephone if the Examiner believes that such contact would be helpful in furthering the prosecution of this application.

Respectfully submitted,

HICKMAN PALERMO BECKER

BINGHAM LLP

/EdwardABecker#37777/

Edward A. Becker

Reg. No. 37,777

Date: July 24, 2020

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 16/507,952		Filing Date 07/10/2019		☐ To be Mailed		
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO										
APPLICATION AS FILED - PART I										
		(Column 1)			(Column 2)					
FOR		NUMBER FILED			NUMBER EXTRA			RATE (\$)	FEE (\$)	
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A			N/A			N/A		
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A			N/A			N/A		
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A			N/A			N/A		
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 =			*			x \$100 =		
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =			*			x \$460 =		
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL				
APPLICATION AS AMENDED - PART II										
		(Column 1)			(Column 2)			(Column 3)		
AMENDMENT	07/24/2020	CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR			PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	* 20	Minus	** 20		= 0			x \$100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3		= 0			x \$460 =	0
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
								TOTAL ADD'L FEE	0	
		(Column 1)			(Column 2)			(Column 3)		
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR			PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**		=			x \$0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***		=			x \$0 =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
								TOTAL ADD'L FEE	LIE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.										
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".										/ANTHONY TYSON/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".										
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

<i>Index of Claims</i> 	Application/Control No. 16/507,952	Applicant(s)/Patent Under Reexamination Nelson et al.
	Examiner HEMANT PATEL	Art Unit 2653

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	04/22/2020	09/08/2020							
	1	-	-							
	2	=	=							
	3	=	=							
	4	=	=							
	5	=	=							
	6	=	=							
	7	=	=							
	8	=	=							
	9	=	=							
	10	=	=							
	11	=	=							
	12	=	=							
	13	=	=							
	14	=	=							
	15	✓	=							
	16	=	=							
	17	=	=							
	18	=	=							
	19	=	=							
	20	=	=							
	21	=	=							

Issue Classification 	Application/Control No. 16/507,952	Applicant(s)/Patent Under Reexamination Nelson et al.
	Examiner HEMANT PATEL	Art Unit 2653

CPC						
Symbol					Type	Version
H04N	/	7	/	155	F	2013-01-01
H04N	/	7	/	15	I	2013-01-01
H04L	/	12	/	1822	I	2013-01-01
H04L	/	12	/	1827	I	2013-01-01
H04M	/	7	/	0027	I	2013-01-01
H04L	/	12	/	1813	I	2013-01-01
H04M	/	3	/	567	I	2013-01-01
H04L	/	65	/	403	I	2013-01-01
G06F	/	3	/	0482	A	2013-01-01
G06F	/	3	/	0484	A	2013-01-01

CPC Combination Sets							
Symbol				Type	Set	Ranking	Version
	I		I				

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/HEMANT S PATEL/ Primary Examiner, Art Unit 2653	08 September 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1, 8, 15	3D

U.S. Patent and Trademark Office

Part of Paper No.: 20200730

Issue Classification 	Application/Control No. 16/507,952	Applicant(s)/Patent Under Reexamination Nelson et al.
	Examiner HEMANT PATEL	Art Unit 2653

INTERNATIONAL CLASSIFICATION				
CLAIMED				
H04N7/15	/	7	/	15
H04L12/18	/	12	/	18
H04M7/00	/	7	/	00
H04M3/56	/	3	/	56
G06F3/0482	/	3	/	0482
G06F3/0484	/	3	/	0484

NON-CLAIMED				
H04L29/06	/	29	/	06

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/HEMANT S PATEL/ Primary Examiner, Art Unit 2653	08 September 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1, 8, 15	3D

U.S. Patent and Trademark Office

Part of Paper No.: 20200730

Issue Classification 	Application/Control No. 16/507,952	Applicant(s)/Patent Under Reexamination Nelson et al.
	Examiner HEMANT PATEL	Art Unit 2653

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1	9	10	18	19										
1	2	10	11	19	20										
2	3	11	12	20	21										
3	4	12	13												
4	5	13	14												
5	6	14	15												
6	7	15	16												
7	8	16	17												
8	9	17	18												

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 20	
/HEMANT S PATEL/ Primary Examiner, Art Unit 2653 (Primary Examiner) _____ (Date) 08 September 2020		O.G. Print Claim(s) 1, 8, 15	O.G. Print Figure 3D



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NOTICE OF ALLOWANCE AND FEE(S) DUE

29989 7590 09/11/2020
HICKMAN PALERMO BECKER BINGHAM LLP
1 ALMADEN BOULEVARD
FLOOR 12
SAN JOSE, CA 95113

EXAMINER

PATEL, HEMANT SHANTILAL

ART UNIT

PAPER NUMBER

2653

DATE MAILED: 09/11/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/507,952	07/10/2019	Steven Nelson	49986-0955	7543

TITLE OF INVENTION: INTEGRATION OF VIDEOCONFERENCING WITH INTERACTIVE ELECTRONIC WHITEBOARD APPLIANCES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	12/11/2020

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

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Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

29989 7590 09/11/2020
HICKMAN PALERMO BECKER BINGHAM LLP
1 ALMADEN BOULEVARD
FLOOR 12
SAN JOSE, CA 95113

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/507,952	07/10/2019	Steven Nelson	49986-0955	7543

TITLE OF INVENTION: INTEGRATION OF VIDEOCONFERENCING WITH INTERACTIVE ELECTRONIC WHITEBOARD APPLIANCES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	12/11/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
PATEL, HEMANT SHANTILAL	2653	348-014030

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

- ☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/507,952	07/10/2019	Steven Nelson	49986-0955	7543
29989	7590	09/11/2020		
HICKMAN PALERMO BECKER BINGHAM LLP				
1 ALMADEN BOULEVARD				
FLOOR 12				
SAN JOSE, CA 95113				
EXAMINER				
PATEL, HEMANT SHANTILAL				
ART UNIT		PAPER NUMBER		
2653				

DATE MAILED: 09/11/2020

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b) (2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 16/507,952	Applicant(s) Nelson et al.	
	Examiner HEMANT PATEL	Art Unit 2653	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/24/2020.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 2-21. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov**.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
Certified copies:
a) ☐ All b) ☐ Some *c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)	5. ☐ Examiner's Amendment/Comment
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.	6. ☐ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.	

/HEMANT S PATEL/ Primary Examiner, Art Unit 2653	
---	--

<i>Search Notes</i> 	Application/Control No. 16/507,952	Applicant(s)/Patent Under Reexamination Nelson et al.
	Examiner HEMANT PATEL	Art Unit 2653

CPC - Searched*		
Symbol	Date	Examiner
G06F 3/0482,0484	11/01/2019	HSP
H04L 12/1813,1822,1827, 65/403	11/01/2019	HSP
H04M 3/567, 7/0027	11/01/2019	HSP
H04N 7/15,155	11/01/2019	HSP
Updated above search	07/30/2020	HSP

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
348	14.01-14.16	11/01/2019	HSP
370	259-271	11/01/2019	HSP
379	201.01,202.01-207.01	11/01/2019	HSP
709	201-207,217-248	11/01/2019	HSP

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Search in EAST, Patent search	11/01/2019	HSP
Text search	11/06/2019	HSP

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<i>Search Notes</i> 	Application/Control No. 16/507,952	Applicant(s)/Patent Under Reexamination Nelson et al.
	Examiner HEMANT PATEL	Art Unit 2653

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
G06F	3/0482,0484	07/30/2020	HSP
H04L	12/1813,1822,1827, 65/403	07/30/2020	HSP
H04M	3/567, 7/0027	07/30/2020	HSP
H04N	7/15,155	07/30/2020	HSP

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	39,890	(whiteboard or ((common or shared) display))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2020/07/30 16:09
L2	118,200	(videoconference or teleconference or ((video or tele or multimedia or (multi media)) conferenc\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2020/07/30 16:09
L3	1,434	(L1 with L2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2020/07/30 16:09
L4	81	(L3 with ((control or controlling or start\$3 or initiat\$3 or stop\$4 or end\$3 or terminat\$3) near4 (button or icon or control)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2020/07/30 16:09
L5	2	(L4 and G06F3/0482,0484.cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2020/07/30 16:09
L6	23	(L4 and (H04L12/1813,1822,1827 or H04L65/403).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2020/07/30 16:12
L7	1	((L4 not L5 not L6) and (H04M3/567 or H04M7/0027).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2020/07/30 16:18
L8	7	((L4 not L5 not L6) and (H04N7/15,155).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2020/07/30 16:19
L9	1,013	((L1 not L3) with ((control or controlling or start\$3 or initiat\$3 or	US-PGPUB; USPAT; USOCR;	ADJ	ON	2020/07/30 16:22

		stop\$4 or end\$3 or terminat\$3) near4 (button or icon or control)))	FPRS; EPO; JPO; DERWENT; IBM_TDB			
L10	49	(L9 and G06F3/0482,0484.cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2020/07/30 16:23
L11	45	((L9 NOT L10) and (H04L12/1813,1822,1827 or H04L65/403).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2020/07/30 16:42
L12	0	((L9 NOT L10 NOT L11) and (H04M3/567 or H04M7/0027).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2020/07/30 16:53
L13	49	((L9 NOT L10 NOT L11) and (H04N7/15,155).cpc.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2020/07/30 16:53
L14	65,637	(whiteboard or (presentation display))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2020/07/30 17:00
L15	10,001	(L14 with (control or button or key or icon))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2020/07/30 17:00
L16	118,200	(videoconference or teleconference or ((video or tele or multimedia or (multi media)) conferenc\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2020/07/30 17:00
L17	23	((L15 same L16) NOT L3 NOT L9)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2020/07/30 17:00

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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L18	0	((whiteboard session window) and overlaid and menu and (videoconference window)).clm.	US-PGPUB; USPAT	ADJ	ON	2020/07/30 17:06
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7/30/2020 5:20:21 PM

C:\Users\hpatel1\Documents\EAST\Workspaces\16507952_20200730_1stAmend.wsp

Corrected Notice of Allowance - Correction of Issue Fee Amount

Due to a technical problem, the Notice of Allowance and Fee(s) Due mailed in this application specified an incorrect fee amount (the amount effective on October 2, 2020 for Notices of Allowance mailed on or after October 2, 2020). Corrected Notices of Allowance are being mailed to all applicants who are affected. This is necessary because the statute requires the applicant to pay the fee that is specified on the Notice of Allowance.

A Corrected Notice of Allowance is attached which specifies the correct issue fee. The time period for payment of the issue fee set forth in the previous Notice of Allowance and Fee(s) Due is being restarted to run THREE MONTHS from the "DATE MAILED" of the attached Corrected Notice of Allowance. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

For applicants who replied prior to receiving the Corrected Notice of Allowance:

Applicant must still file a completed Part B – Fee(s) Transmittal, Form PTOL-85 Part B, or an equivalent, in reply to the Corrected Notice of Allowance since the Corrected Notice of Allowance sets forth a time period for reply. This applies to those situations in which applicant's reply was not processed before the Corrected Notice of Allowance was mailed (e.g., the reply crossed in the mail with the Corrected Notice of Allowance) and those situations in which applicant's reply was already processed. Applicants should check the appropriate box in section 4b of Form PTOL-85 Part B, such as the box authorizing the Director to "charge the required fee(s), any deficiency, or credit any overpayment" to a deposit account number. If this box is checked, the applicant will be refunded the amount of any overpayment to the designated deposit account. In addition, by checking the appropriate box in section 4b of Form PTOL-85, Part B, the applicant requests the Office to "first reapply any previously paid fee shown above," as stated on the form. Applicant may also include an explanatory cover letter, if desired. If, however, applicant prefers to file an equivalent of Form PTOL-85, Part B, and if applicant paid an increased issue fee amount as specified on the Notice of Allowance, applicant may request a refund of the difference between the incorrect amount specified on the Notice of Allowance and the correct amount specified on the Corrected Notice of Allowance.

For questions regarding the issue fee amount calculation, please contact the Application Assistance Unit at 888-786-0101 or HelpAAUCBuspfo.gov.

For assistance with PAIR or EFS-Web, please contact the Patent EBC at 1-866-217-9197 or ebc@uspto.gov.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

**CORRECTED
NOTICE OF ALLOWANCE AND FEE(S) DUE**

29989 7590 09/23/2020
HICKMAN PALERMO BECKER BINGHAM LLP
1 ALMADEN BOULEVARD
FLOOR 12
SAN JOSE, CA 95113

EXAMINER	
PATEL, HEMANT SHANTILAL	
ART UNIT	PAPER NUMBER
2653	

DATE MAILED: 09/23/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/507,952	07/10/2019	Steven Nelson	49986-0955	7543

TITLE OF INVENTION: INTEGRATION OF VIDEOCONFERENCING WITH INTERACTIVE ELECTRONIC WHITEBOARD APPLIANCES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
REGULAR	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	12/23/2020

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

**By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450**

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

29989 7590 09/23/2020
HICKMAN PALERMO BECKER BINGHAM LLP
1 ALMADEN BOULEVARD
FLOOR 12
SAN JOSE, CA 95113

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date indicated below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/507,952	07/10/2019	Steven Nelson	49986-0955	7543

TITLE OF INVENTION: INTEGRATION OF VIDEOCONFERENCING WITH INTERACTIVE ELECTRONIC WHITEBOARD APPLIANCES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
REGULAR	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	12/23/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
PATEL, HEMANT SHANTILAL	2653	348-014030

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. Change in Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
☐ Applicant asserting small entity status. See 37 CFR 1.27
☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/507,952	07/10/2019	Steven Nelson	49986-0955	7543

29989	7590	09/23/2020
HICKMAN PALERMO BECKER BINGHAM LLP		
1 ALMADEN BOULEVARD		
FLOOR 12		
SAN JOSE, CA 95113		

EXAMINER	
PATEL, HEMANT SHANTILAL	

ART UNIT	PAPER NUMBER
2653	

DATE MAILED: 09/23/2020

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

**By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450**

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

29989 7590 09/23/2020
HICKMAN PALERMO BECKER BINGHAM LLP
1 ALMADEN BOULEVARD
FLOOR 12
SAN JOSE, CA 95113

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

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(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/507,952	07/10/2019	Steven Nelson	49986-0955	7543

TITLE OF INVENTION: INTEGRATION OF VIDEOCONFERENCING WITH INTERACTIVE ELECTRONIC WHITEBOARD APPLIANCES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
REGULAR	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	12/23/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
PATEL, HEMANT SHANTILAL	2653	348-014030

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Hickman Palermo
Becker
2 Bingham LLP
3 Edward A. Becker

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

RICOH COMPANY, LTD.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Tokyo, Japan

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)
☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 501302

5. Change in Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
☐ Applicant asserting small entity status. See 37 CFR 1.27
☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /EdwardABecker#37777/

Date December 21, 2020

Typed or printed name Edward A. Becker

Registration No. 37,777

Electronic Acknowledgement Receipt	
EFS ID:	41455388
Application Number:	16507952
International Application Number:	
Confirmation Number:	7543
Title of Invention:	INTEGRATION OF VIDEOCONFERENCING WITH INTERACTIVE ELECTRONIC WHITEBOARD APPLIANCES
First Named Inventor/Applicant Name:	Steven Nelson
Customer Number:	29989
Filer:	Edward A. Becker
Filer Authorized By:	
Attorney Docket Number:	49986-0955
Receipt Date:	21-DEC-2020
Filing Date:	10-JUL-2019
Time Stamp:	19:18:39
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$1000
RAM confirmation Number	E2020BKJ19118627
Deposit Account	501302
Authorized User	Edward Becker
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.21 (Miscellaneous fees and charges) 37 CFR 1.20 (Post Issuance fees)	

37 CFR 1.19 (Document supply fees) 37 CFR 1.17 (Patent application and reexamination processing fees) 37 CFR 1.16 (National application filing, search, and examination fees)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	RSID1-865C2_FN201903565_49986-0955_IssueFeeTransmittal.pdf	90548	no	1
			b0b1bfeb7947940ee6d6e4693b2fd9e2c97d449b		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30476	no	2
			276b3a4abfcec278252da7827b82a5c3a195ea605		
Warnings:					
Information:					
Total Files Size (in bytes):			121024		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

Electronic Patent Application Fee Transmittal				
Application Number:		16507952		
Filing Date:		10-Jul-2019		
Title of Invention:		INTEGRATION OF VIDEOCONFERENCING WITH INTERACTIVE ELECTRONIC WHITEBOARD APPLIANCES		
First Named Inventor/Applicant Name:		Steven Nelson		
Filer:		Edward A. Becker/Viktoria Neill		
Attorney Docket Number:		49986-0955		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1000	1000

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1000



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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/507,952	01/26/2021	10904487	49986-0955	7543

29989

7590

01/06/2021

HICKMAN PALERMO BECKER BINGHAM LLP
1 ALMADEN BOULEVARD
FLOOR 12
SAN JOSE, CA 95113

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Steven Nelson, San Jose, CA;
Lana Wong, Randolph, NJ;
Hiroshi Kitada, Tuckahoe, NY;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

IR103 (Rev. 10/09)